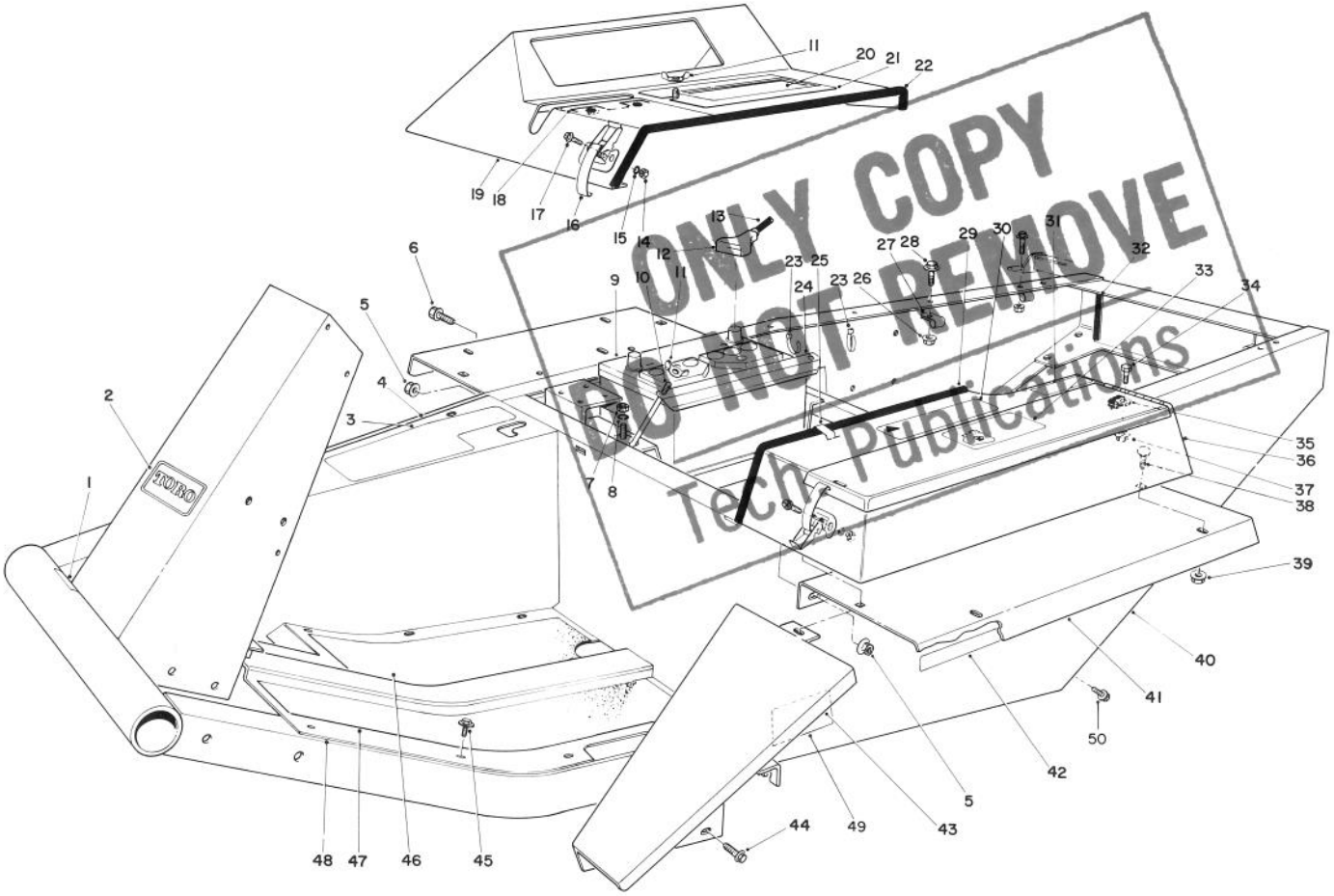
FORM NO. 3314-483

TORO®

MODEL NO. 30739-10001 & UP
MODEL NO. 30722-10001 & UP
MODEL NO. 30710-10001 & UP

PARTS CATALOG

GROUNDSMASTER® 322D
INTERNATIONAL - WITH POWER STEERING



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Tech Publications

T-0407

MAIN FRAME ASSEMBLY

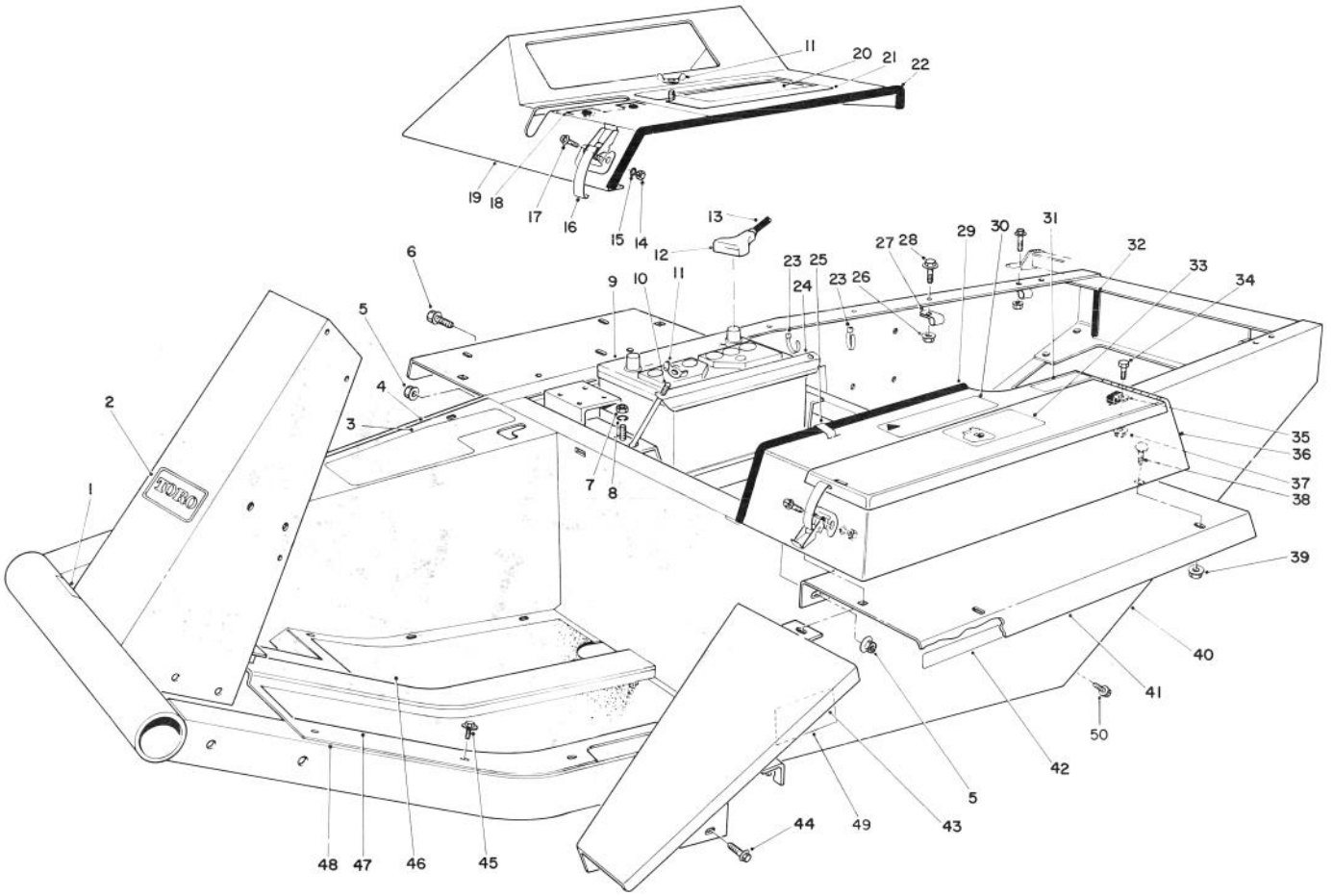
Ref. No.	Part No.	Description	No. Used
1	27-7320	Decal - Traction Pedal	1
2	70-2200	Decal - Toro	1
3	66-6390	Decal - Caution	1
4	21-2660	Footrest	1
5	32128-21	Nut - Lock, Flange	10
6	3234-12	Screw - Hex. Hd. Flange	4
7	3217-6	Nut - Hex.	2
8	3253-4	Washer - Lock	2
†9		Battery Type MF24-78	1
10	24-6390	Stud - Battery Hold Down	2
11	32103-2	Nut - Wing	3
12	28-1280	Boot - Cable	1
13	70-1180	Cable - Battery Positive (Inc. Ref. #12)	1
14	3296-2	Nut	6
15	3253-17	Washer - Lock	4
16	249-21	Hook Clamp	3

Ref. No.	Part No.	Description	No. Used
17	3290-144	Screw - Machine	6
18	27-7290	Decal - Power Take off	1
19	38-4550	Instrument Cover	1
20	43-4290	Decal - Starting Instructions	1
21	24-9740	Cover - Battery Access	1
22	39-8020	Trim - Instrument Cover	1
23	3290-378	Cable Tie	2
24	24-6420	Hold Down - Battery	1
25	2412-61	Clip - Tinnerman	2
26	3290-357	Nut - Lock, Flange	5
27	2412-4	Clamp	3
28	3234-11	Screw - w/Locking Flange	5
29	37-9650	Trim	1
30	67-1710	Decal - Caution	1
31	49-2280	Decal - Diesel Fuel	1
32	43-4300	Trim - Rear Frame	2
33	27-7310	Decal - Refueling	1

†Obtain Locally

TPS

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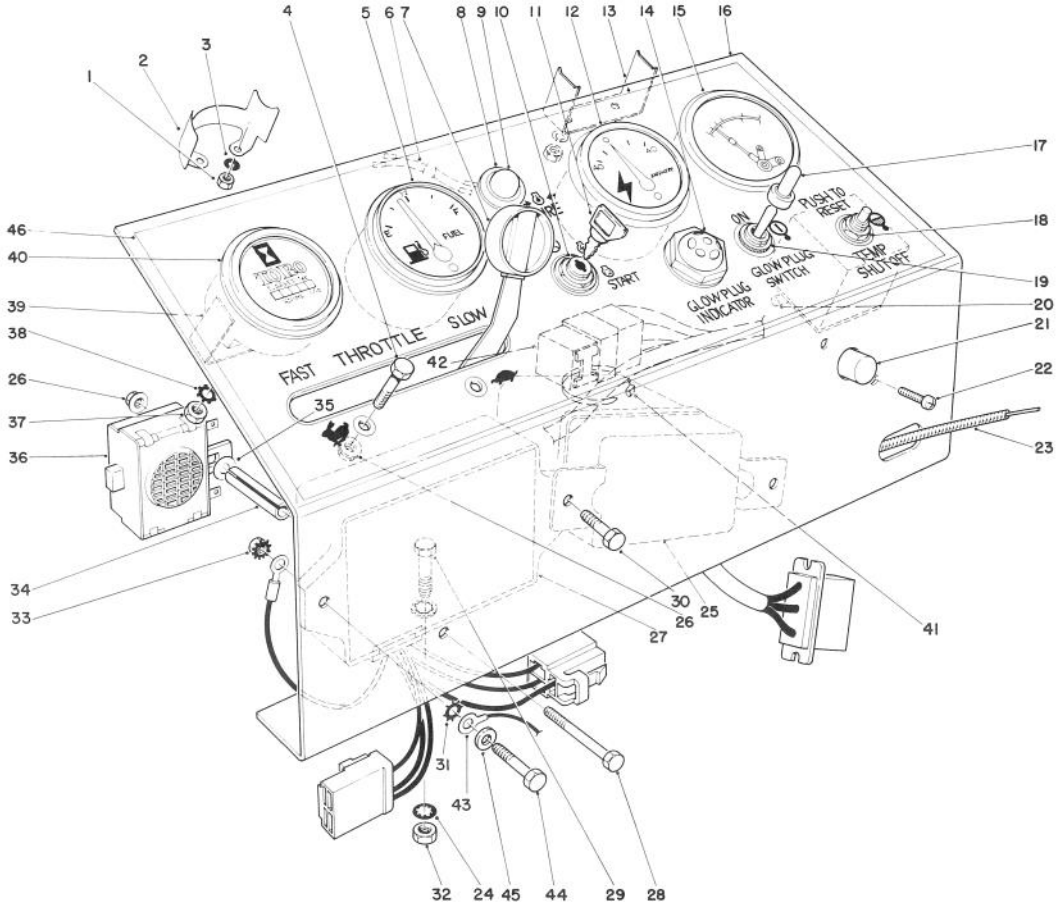


T-0407

MAIN FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
34	322-5	Screw - Cap, Hex. Hd.	1
35	2412-74	Clamp	1
36	38-4530	Tool Box	1
37	32128-20	Nut - Lock, Flange	1
38	3229-1	Bolt - Carriage	5
39	32128-33	Nut - Lock, Flange	5
40	82-9970	Frame (Inc. Ref. #5 & 50)	1
41	72-3690	Fender	2

Ref. No.	Part No.	Description	No. Used
42	67-1720	Decal - Torque	2
43	68-8610	Fender - Extension	1
44	3234-14	Screw - Cap, Hex. Hd.	2
45	12-3270	Screw, Self-Tapping	11
46	21-2770	Pad - Foot Rest R.H.	1
47	21-2760	Pad - Foot Rest L.H.	1
48	77-3210	Floor Plate	1
49	75-0810	Decal - Caution	2
50	3234-25	Screw - Cap, Flange Hd.	4



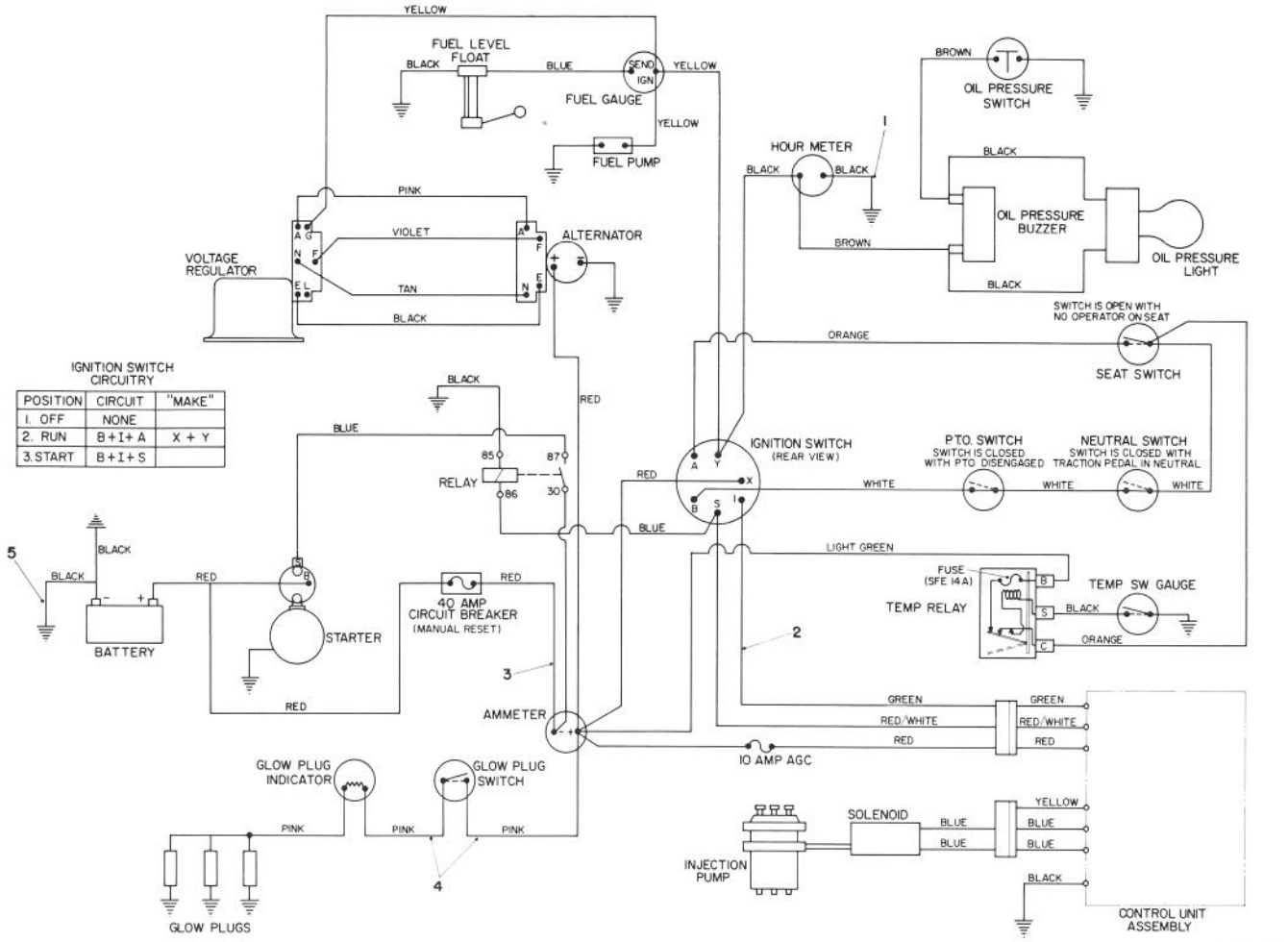
T-0408

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3219-14	Nut	6
2	38-1670	Clamp Mounting	2
3	3253-17	Washer - Lock	6
4	3290-134	Screw - Hex. Hd. Mach.	2
5	38-1650	Fuel Gauge (Incl. Ref. #1-3)	1
6	44-2220	Wire Lead	
7	233-35	Knob	2
8	44-2210	Warning Light (Inc. Ref. #9)	1
9	218-533	Lens	1
10	27-2360	Key Switch (Incl. Ref. #11)	1
11	63-8360	Key	1
12	38-1660	Ammeter (Inc. Ref. #1-3)	1
13	218-539	Clamp	1
14	42-9190	Glow Lamp	1
15	26-6750	Engine Temperature Gauge (Incl. Ref. #1, 3, & 13)	1
16	43-3970	Panel - Instrument	1
17	218-473	Toggle Switch Boot	1
18	26-6740	Temperature Reset Relay	1
19	6-1659	Toggle Switch (Inc. Ref. #17)	1
†20		Fuse - Temp. Relay 14 Amp. SFE	1
21	43-4000	Circuit Breaker	1

Ref. No.	Part No.	Description	No. Used
22	3250-17	Screw— Pan Hd.	2
23	43-3990	Throttle Control (Incl. Ref. #7)	1
24	3254-2	Washer - Lock, Int. Tooth	2
25	43-0410	Regulator Assembly	1
26	32128-17	Nut - Lock, Flange Hd.	3
27	43-1880	Control Unit Assembly	1
28	3290-424	Screw - Hex. Hd. Mach.	1
29	322—5	Screw - Cap, Hex. Hd.	2
30	321-4	Screw - Cap, Hex. Hd.	2
31	3255-7	Washer - Lock, Ext. Tooth	3
32	3217-6	Nut - Hex	2
33	32149-2	Nut - Lock	3
34	43-3820	Spacer	1
35	3256-14	Washer - Flat	1
36	22-7820	Buzzer Assembly	1
37	3217-26	Nut	1
38	3254-1	Washer - Lock	1
39	218-515	Mounting Bracket	1
40	12-9990	Hour Meter (Incl. Ref. #37-39)	1
41	3290-379	Cable Tie	1
42	63-7590	Relay	1
43	70-1190	Cable—Ground	1
44	321-6	Screw - Cap, Hex. Hd.	1
45	3256-1	Washer - Flat	1
46	43-3980	Decal - Panel, Instrument	1

†Obtain Locally

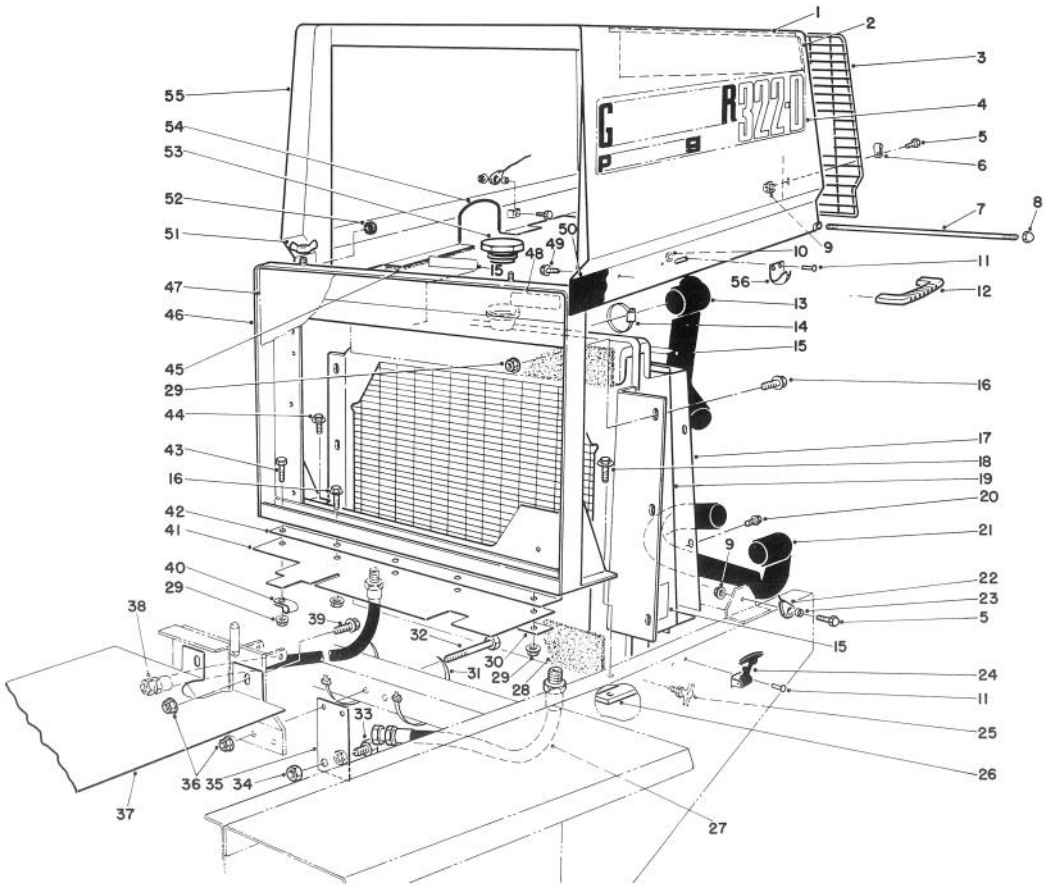


T-0409

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	21-2370	Wire - Hour Meter Ground	1
2	70-1230	Wire Harness Assembly	1
3	43-4040	Wire Assembly	1

Ref. No.	Part No.	Description	No. Used
4	43-4010	Wire Assembly	2
5	70-1190	Ground Cable	1

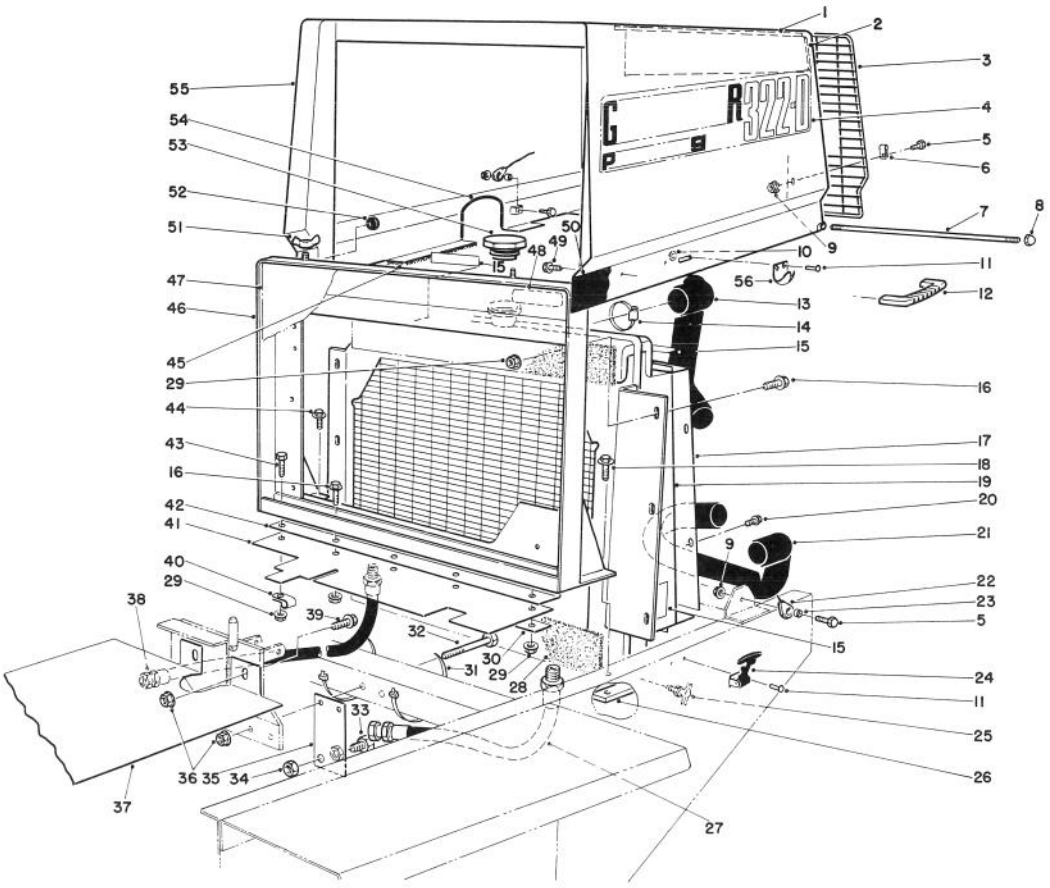


T-1185

RADIATOR & HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	77-5160	Foam - Top	1
2	77-5170	Foam - Side	1
3	67-9000	Screen - Rear	1
4	67-7760	Decal - Groundsmaster	2
5	321-4	Screw - Cap, Hex. Hd.	8
6	2412-127	Clamp	4
7	67-8840	Pin - Hinge	1
8	32111-8	Nut - Acorn	2
9	32128-32	Nut - Flange	8
10	3269-10	Washer - Backup	2
11	3269-16	Rivet	4
12	65-5100	Handle - Hood	1
13	43-3350	Hose - Upper, Radiator	1
14	2412-3	Clamp - Hose	4
15	77-3100	Decal - Warning	3
16	3234-14	Screw - Flange, Hex. Hd.	11
17	43-3330	Shroud - Radiator	1
18	3234-1	Screw - Flange, Hex. Hd.	2
19	33-2570	Radiator Assembly	1
20	32104-116	Screw - Self Tapping	8
21	43-7020	Hose - Lower, Radiator	1
22	77-3170	Stop - Cable, Hood	2
23	77-5250	Spacer - Cable, Hood	4
24	249-39	Latch - Draw, Flexible	1

Ref. No.	Part No.	Description	No. Used
25	304-46	Drain Cock	1
26	38-4600	Bar - Frame, LH	1
27	63-9010	Hose Assy. - Cooler/Pump	1
28	43-3320	Foam - Radiator	2
29	32128-20	Screw - Flange, Hex. Hd.	11
30	67-8470	Strip - Retainer	1
31	3290-379	Tie - Cable	4
32	323-14	Screw - Cap, Hex. Hd.	2
33	340-71	Union - Bulkhead	2
34	340-70	Nut - Lock, Bulkhead	2
35	68-9160	Bracket	1
36	32128-21	Nut - Flange	4
37	67-8530	Plate - Sealing	1
38	63-8960	Hose Assy. - Valve/Cooler	1
39	3234-11	Screw - Flange	2
40	2412-39	Clamp	1
41	67-8570	Strip - Sealing	1
42	43-3340	Plate - Sealing, Grille	1
43	322-5	Screw - Cap, Hex. Hd.	1
44	11-0590	Screw - Self Tapping	2
45	82-8950	Foam - Flange, Hood	2
46	67-8870	Support - Radiator	1
47	67-9030	Grille	1
48	82-8970	Decal - Coolant, Radiator	1



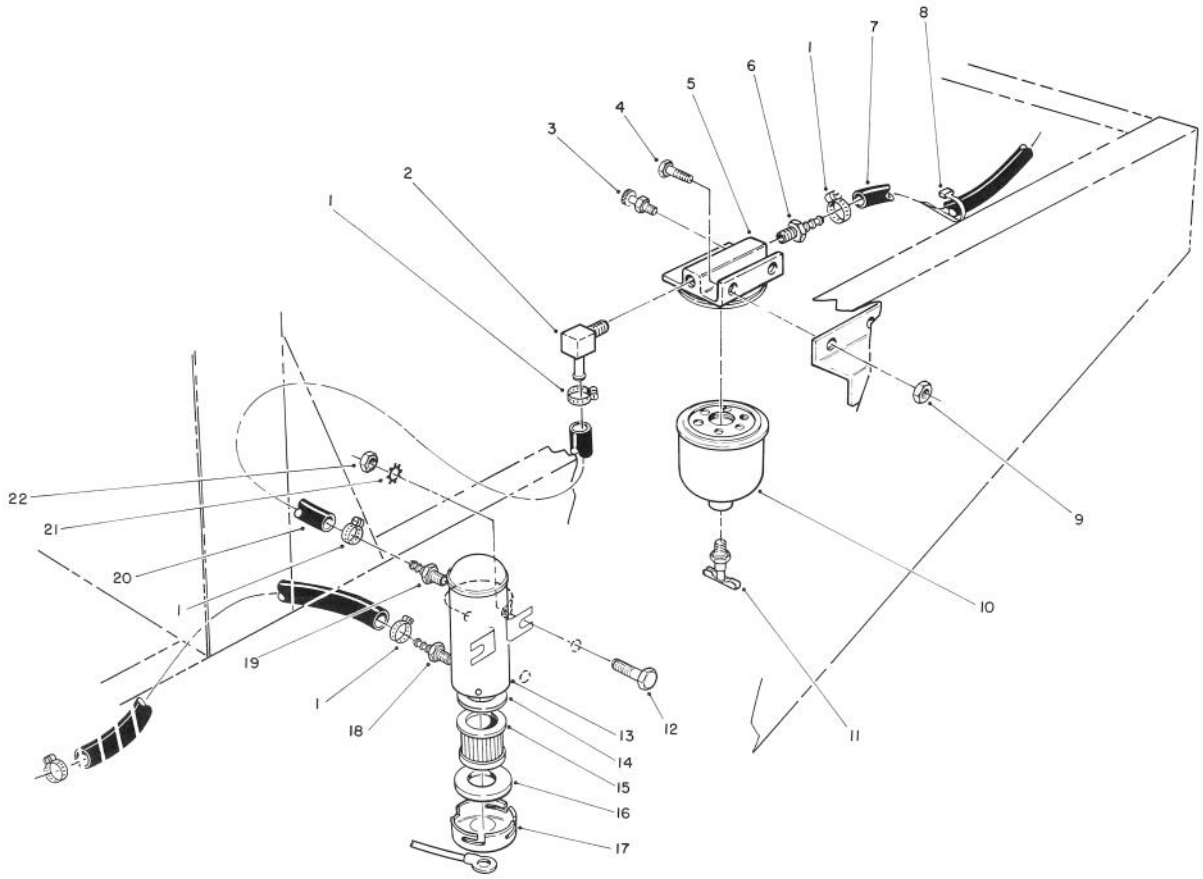
T-1185

RADIATOR & HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
49	46-8091	Screw - Flange	2
50	77-5141	Decal - Hood, LH	1
*	77-5151	Decal - Hood, RH	1
51	32103-2	Nut - Wing	2
52	237-141	Bumper - Radiator	2

Ref. No.	Part No.	Description	No. Used
53	66-3240	Cap - Pressure, Radiator	1
54	66-8111	Trim - Hood, Cutout	1
55	67-8700	Hood	1
56	249-40	Keeper	1

* Not Illustrated

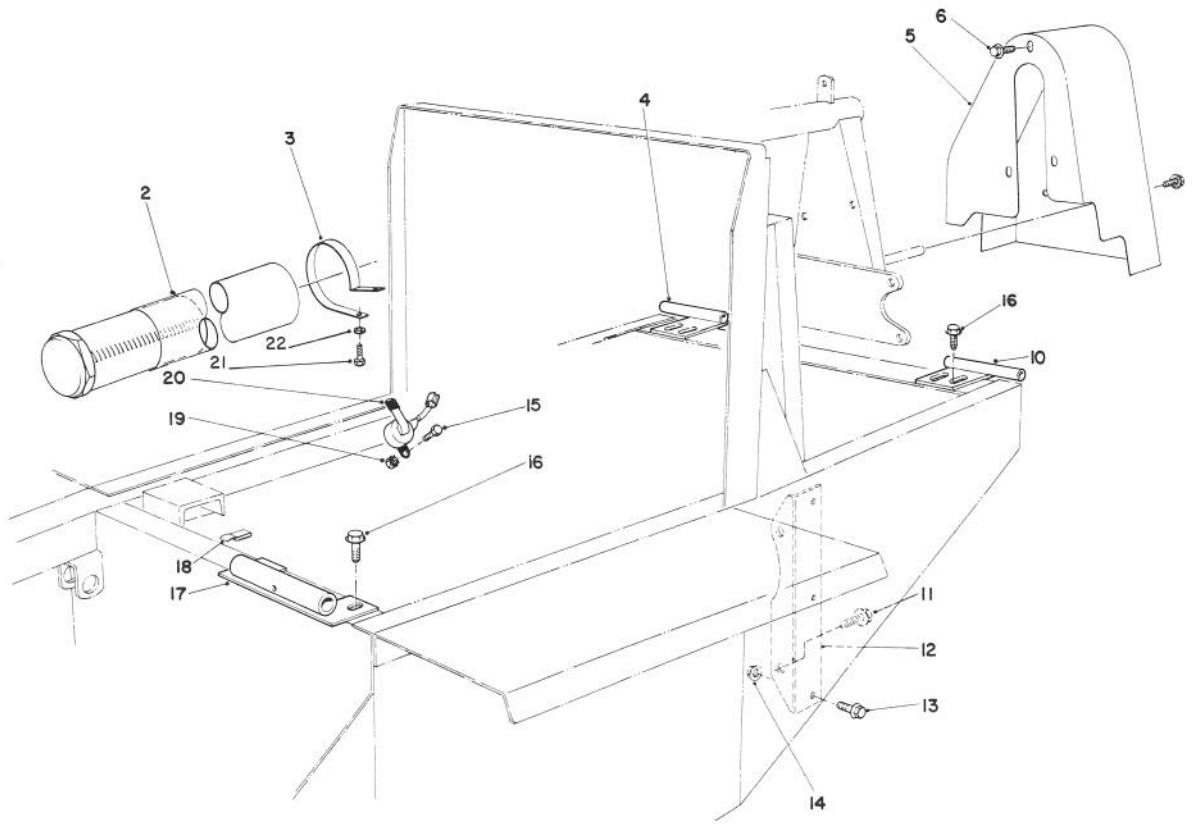


T-0411

FUEL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	2412-108	Hose Clamp	5
2	304-96	90° Hose Barb	1
3	63-8290	Vent	1
4	321-4	Screw - Cap, Hex. Hd.	2
5	63-8280	Head Assembly	1
6	353-975	Hose Barb	1
7	63-9720	Hose	1
8	3290-378	Cable Tie	A/R
9	32149-2	Nut	2
10	63-8300	Element - Fuel Filter (Incl. Ref. #11)	1
11	63-8310	Drain Valve	1

Ref. No.	Part No.	Description	No. Used
12	321-6	Screw - Cap, Hex. Hd.	2
13	53-8150	Pump Assy. Fuel, Electric (Incl. Ref. #14-17)	1
14	43-2570	Gasket	1
15	43-2550	Filter	1
16	43-2560	Gasket	1
17	43-2580	Magnet	1
18	353-702	Hose Barb	1
19	304-73	Hose Barb	1
20	63-9650	Hose	1
21	3255-7	Washer - Lock, Ext. Tooth	2
22	32149-2	Nut	2

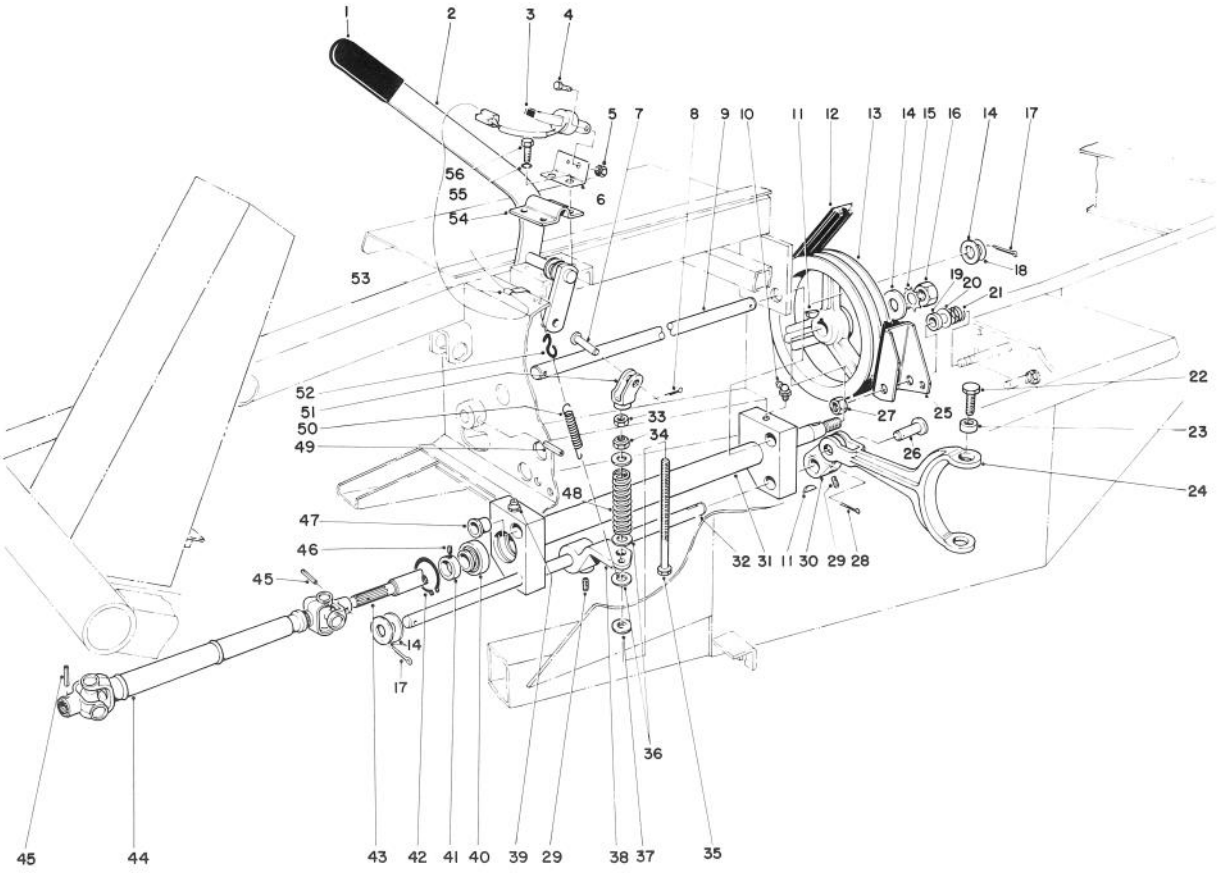


T-1186A

INTERLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
2	74-0720	Tube - Manual	1
3	2412-133	R-Clamp	2
4	67-8820	Hinge, R.H.	1
5	43—3900	Guard - Fan Belt	1
6	3234-14	Screw - Cap, Hex. Hd.	5
9	3256-23	Washer - Flat	1
10	67-8810	Hinge L.H.	1
11	3234-32	Screw - w/Locking Flange	2
12	67-8190	Bracket - Engine Support	2
13	3234-11	Screw w/Locking Flange	6

Ref. No.	Part No.	Description	No. Used
14	3290-357	Nut - Lock, Flange	6
15	321-2	Screw - Cap, Hex. Hd.	2
16	3234-17	Screw - Cap, Hex. Hd.	6
17	27-9810	Seat Pivot	1
18	212-93	Wire Clip	2
19	3296-42	Nut - Lock	1
20	29-6930	Switch	1
21	322-2	Screw - Cap, Hex. Hd.	2
22	3256-23	Washer - Flat	2

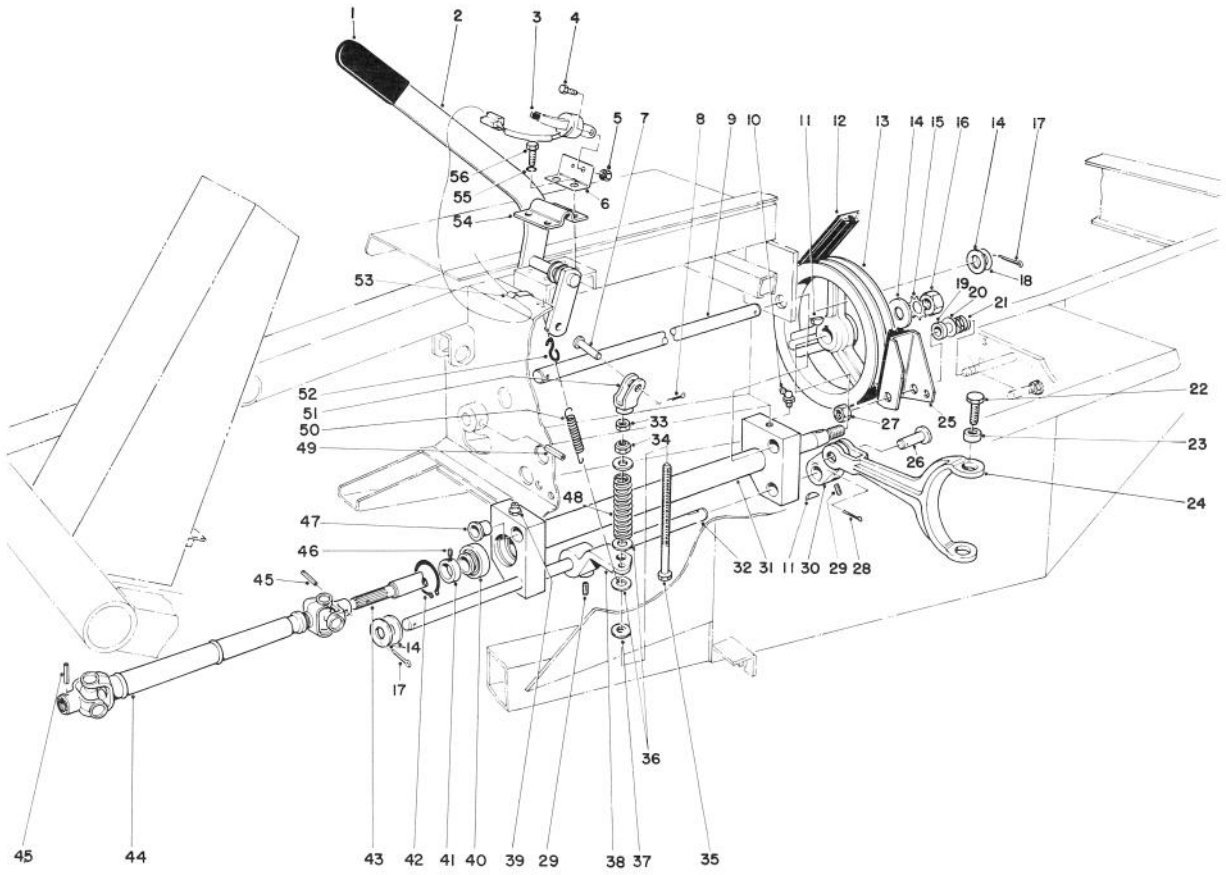


T-0413

POWER TAKE OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-1880	Grip Handle	1
2	21-1550	Lever—P.T.O.	1
3	29-6930	Switch Arm	1
4	321-2	Screw - Cap, Hex. Hd.	1
5	3296-42	Nut - Lock	1
6	27-7260	Mount - Arm Switch	1
7	283-42	Clevis Pin	1
8	3272-10	Cotter Pin	1
9	43-3860	Shaft - Pivot P.T.O.	1
10	302-10	Grease Fitting	1
11	3257-5	Woodruff Key	3
12	53-9660	V-Belt Torque Team	1
13	21-0230	Pulley P.T.O.	1
14	3256-28	Washer - Flat	4
15	3254-7	Washer - Lock	1
16	3219-7	Nut	1
17	3272-22	Cotter Pin	2
18	3-6498	Washer	A/R
19	3-8812	Spacer	1
20	3256-6	Washer - Flat	1
21	5-1747	Spring	1
22	30-2120	Screw - Cap, Hex. Hd.	2
23	43-3800	Bushing - P.T.O. Fork	2
24	43-5610	Fork P.T.O.	1
25	27-7370	Brake Assembly P.T.O.	1
26	283-8	Clevis Pin	1

Ref. No.	Part No.	Description	No. Used
27	3296-28	Nut - Lock	1
28	3272-11	Cotter Pin	1
29	3246-3	Set Screw	4
30	43-5590	Arm - P.T.O.	1
31	43-5500	Pivot P.T.O.	1
32	43-5550	Shaft - Actuator P.T.O.	1
33	3219-3	Nut	1
34	3296-6	Nut - Lock	1
35	27-7900	Screw - Adjusting	1
36	3256-41	Washer - Flat	3
37	5-0652	Spacer	1
38	43-5570	Arm, Actuator - P.T.O.	1
39	302-2	Grease Fitting	1
40	251-252	Ball Bearing (Incl. Ref. #41)	2
41	251-234	Lock Collar (Incl. Ref. #46)	2
42	32120-22	Ring - Retaining	2
43	43-5540	Shaft P.T.O.	1
44	62-4260	Drive Shaft Assembly	1
45	32121-34	Pin - Roll	2
46	3245-1	Set Screw	2
48	21-0400	Spring - Compression	1
49	32121—9	Pin - Roll	1
50	21-1830	Spring - Tension	1
51	43-5630	Yoke - P.T.O.	1

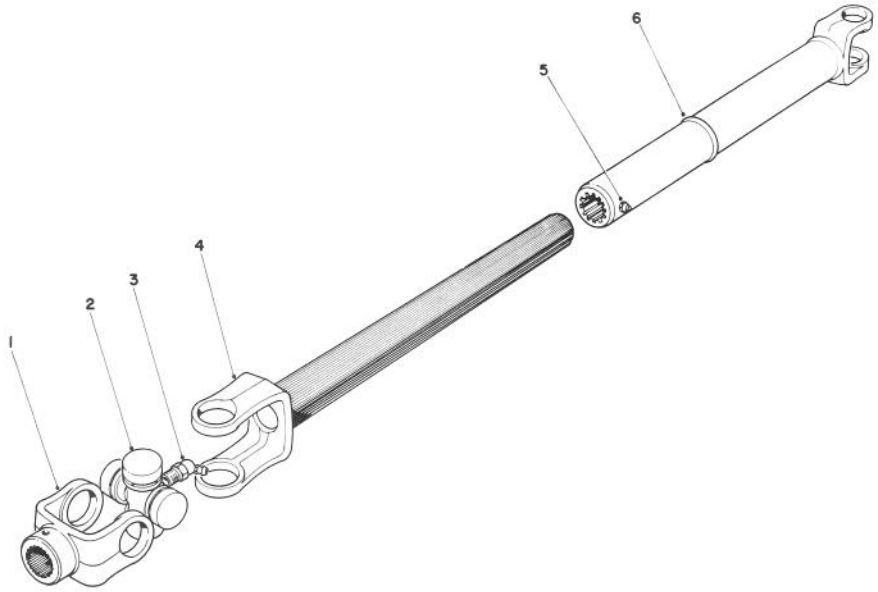


T-0413

POWER TAKE OFF ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
52	5-0701	Spring Anchor	1
53	212-93	Wire Clip	1
54	21-1600	Clamp P.T.O. Lever	1

Ref. No.	Part No.	Description	No. Used
55	3253-21	Washer - Lock	4
56	32104-6	Screw - Hex. Hd. Tapping	4

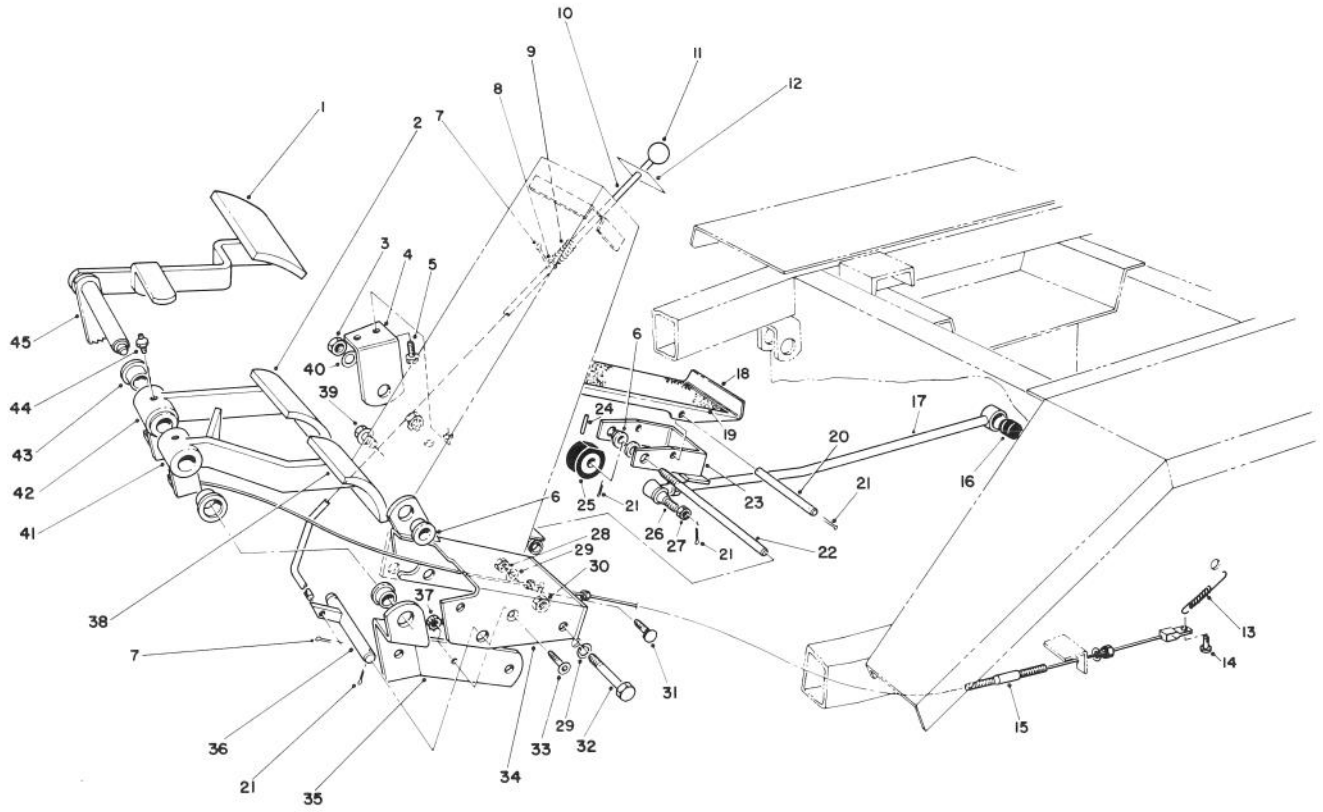


T-0414

DRIVE SHAFT ASSEMBLY NO. 62-4260

Ref. No.	Part No.	Description	No. Used
1	62-3800	End Yoke	2
2	54-9180	U-Joint Kit	2
3	62-3820	Grease Fitting	2

Ref. No.	Part No.	Description	No. Used
4	62-3290	Slip Yoke Shaft	1
5	302-58	Grease Fitting	1
6	62-3790	Slip Yoke Tube	1



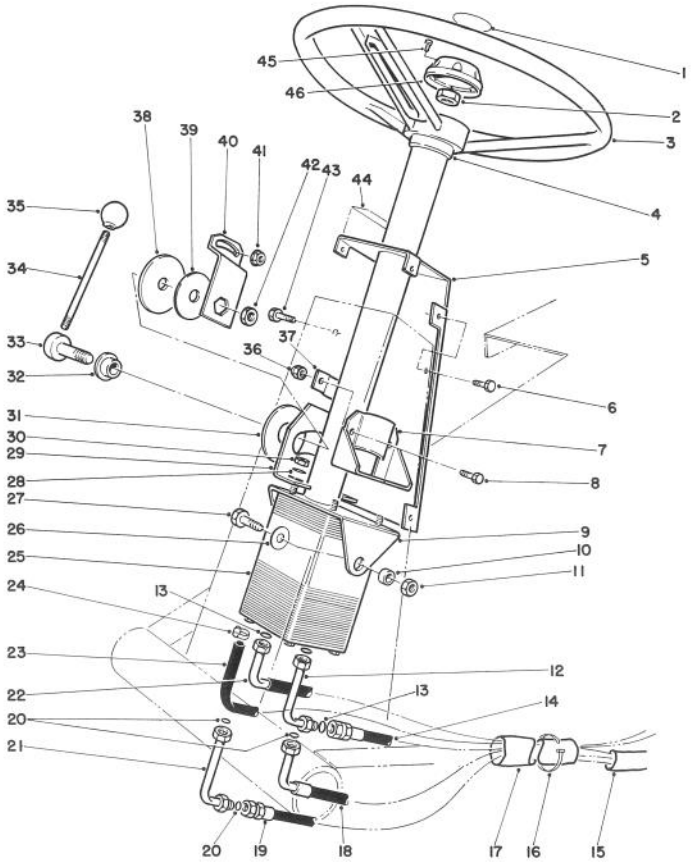
T-0415

BRAKE PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-3900	Pad - Brake	1
2	27-7580	Pad - Right Turn	1
3	3218-5	Nut - Jam	2
4	21-2850	Mount - R.H. Pedal	1
5	11-0590	Screw - Hex. Hd. Tapping	2
6	256-156	Bushing	5
7	3272-5	Cotter Pin	3
8	3256-22	Washer - Flat	1
9	3-3251	Spring - Compression	1
10	82-8670	Rod - Brake Latch	1
11	233-17	Knob	1
12	82-8930	Decal - Parking Brake	1
13	3-7243	Spring - Extension	2
14	283-58	Clevis Pin	2
15	21-3380	Cable - L.H. Brake	1
*	21-3370	Cable - R.H. Brake	1
16	23-2270	Bushing - Rubber	1
17	23-2240	Rod - Pump Control	1
18	28-5190	Pedal Traction	1
19	28-5130	Pad - Pedal	1
20	28-5240	Pin - Traction Pedal	1
21	3272-6	Cotter Pin	7
22	28-5210	Shaft - Traction Pedal	1
23	28-5160	Bracket - Pivot (Inc. Ref. #6)	1

Ref. No.	Part No.	Description	No. Used
24	32121-16	Pin - Roll	1
25	28-5220	Wheel - Friction	1
26	21-0140	Socket Assembly R.H.	1
27	3220-5	Nut - Jam	1
28	3217-7	Nut - Hex	2
29	3253-21	Washer - Lock	4
30	32153-2	Nut - Lock	2
31	3231-21	Bolt - Carriage	2
32	323-13	Screw - Cap, Hex. Hd.	2
33	3274-47	Screw - Flat Hd. Socket	1
34	27-7590	Mount - Brake	1
35	27-9270	Mount - Brake Pivot Shaft	1
36	27-7640	Shaft - Brake Latch	1
37	32149-2	Nut	1
38	27-7570	Pad - Left Turn	1
39	3234-11	Screw - Cap, Hex. Hd .	3
40	3256-26	Washer - Flat	1
41	27-7490	Pedal - L.H. Brake (Incl. Ref. #43)	1
42	27-7510	Pedal - R.H. Brake (Incl. Ref. #43)	1
43	256-10	Bushing	4
44	302-5	Fitting - Grease	2
45	27-8550	Pedal - Parking Bake	1

*Not Illustrated

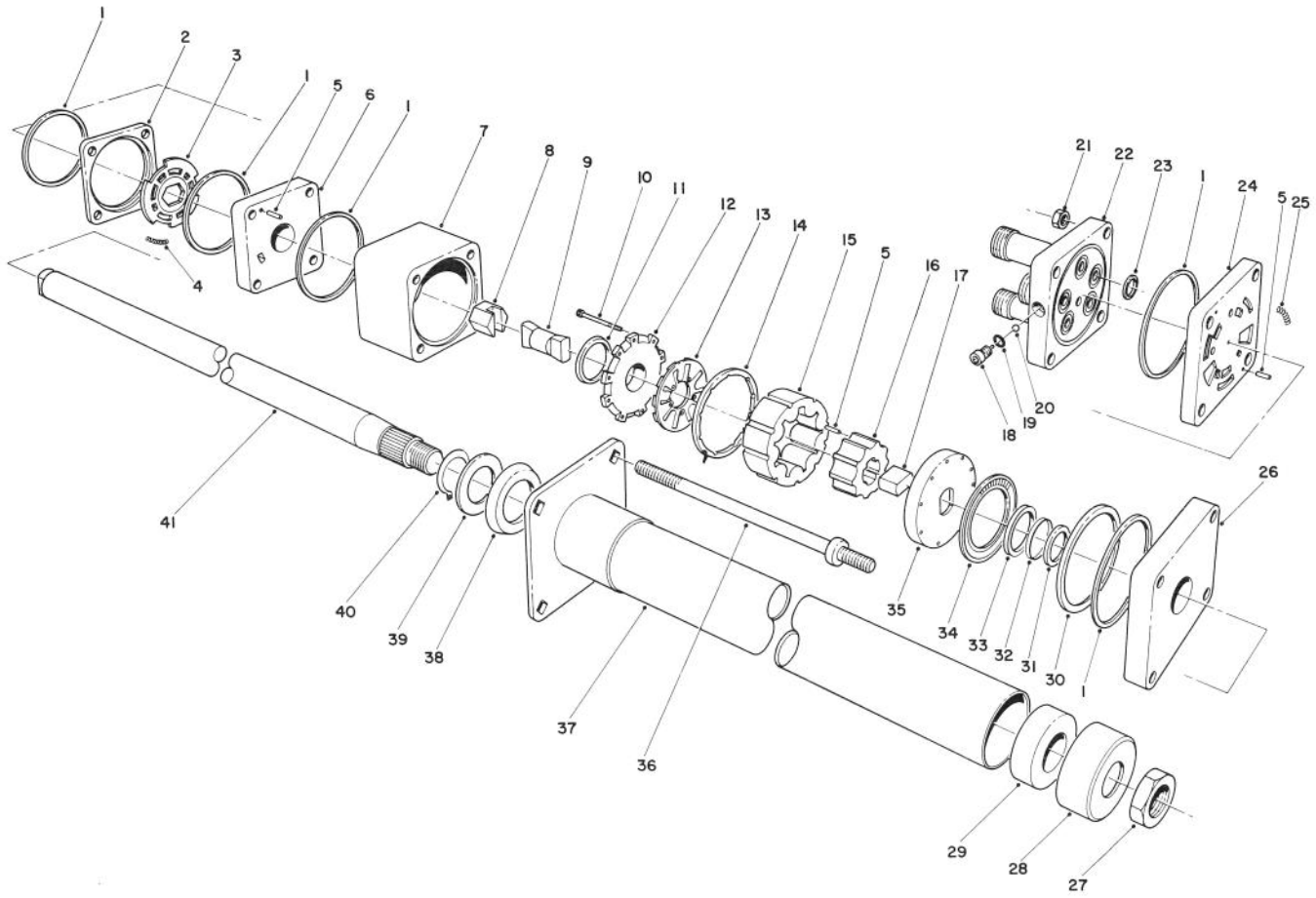


T-1187

POWER STEERING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68-5370	Decal - Toro	1
2	66-9760	Nut - Hex.	1
3	75-0560	Wheel - Steering	1
4	21-9260	Cover - Dust	1
5	82-8660	Cover - Tower	1
6	32144-10	Screw - Hex. Hd. Thd. Form	6
7	67-8690	Support - Column	1
8	3234-17	Screw - Cap, Hex. Hd.	2
9	77-3120	Bracket - Mount, Column	1
10	80-2960	Spacer - Tower	2
11	32153-2	Nut - Hex.	2
12	82-8760	Elbow	1
13	237-30	O-Ring	3
14	63-8970	Hose - Trans. to Steering	1
15	70-1390	Sleeve - Protective	1
16	3290-378	Tie - Cable	2
17	70-1380	Sleeve - Protective	1
18	68-9730	Hose - Steering to Cylinder	1
19	68-9720	Hose - Cylinder to Steering	1
20	237-22	O-Ring	3
21	82-8770	Elbow	1
22	63-8980	Hose - Aux. to Valve	1
23	63-8990	Hose	1

Ref. No.	Part No.	Description	No. Used
24	2412-36	Clamp	2
25	63-9250	Valve - Steering, Power	1
26	3256-46	Washer - Flat	2
27	323-6	Screw - Cap, Hex. Hd.	2
28	3256-3	Washer - Flat	4
29	80-2940	Plate - Pivot	1
30	3296-4	Nut - Lock	4
31	31-0390	Disc - Friction	1
32	80-2980	Boss - Pin	1
33	80-2970	Pin - Steering, Tilt	1
34	80-2890	Handle - Steering, Tilt	1
35	233-21	Knob - Handle	1
36	3296-29	Nut - Lock	2
37	82-8650	Clamp - Half	1
38	82-9010	Disc - Friction	1
39	80-2930	Washer	1
40	80-2880	Bracket - Steering, Tilt	1
41	32128-20	Nut - Flange	1
42	3218-7	Nut - Jam	1
43	322-4	Screw - Cap, Hex. Hd.	1
44	82-8940	Decal - Steering, Tilt	1
45	32144-21	Screw	1
46	68-5140	Cap - Wheel, Steering	1



T-0417

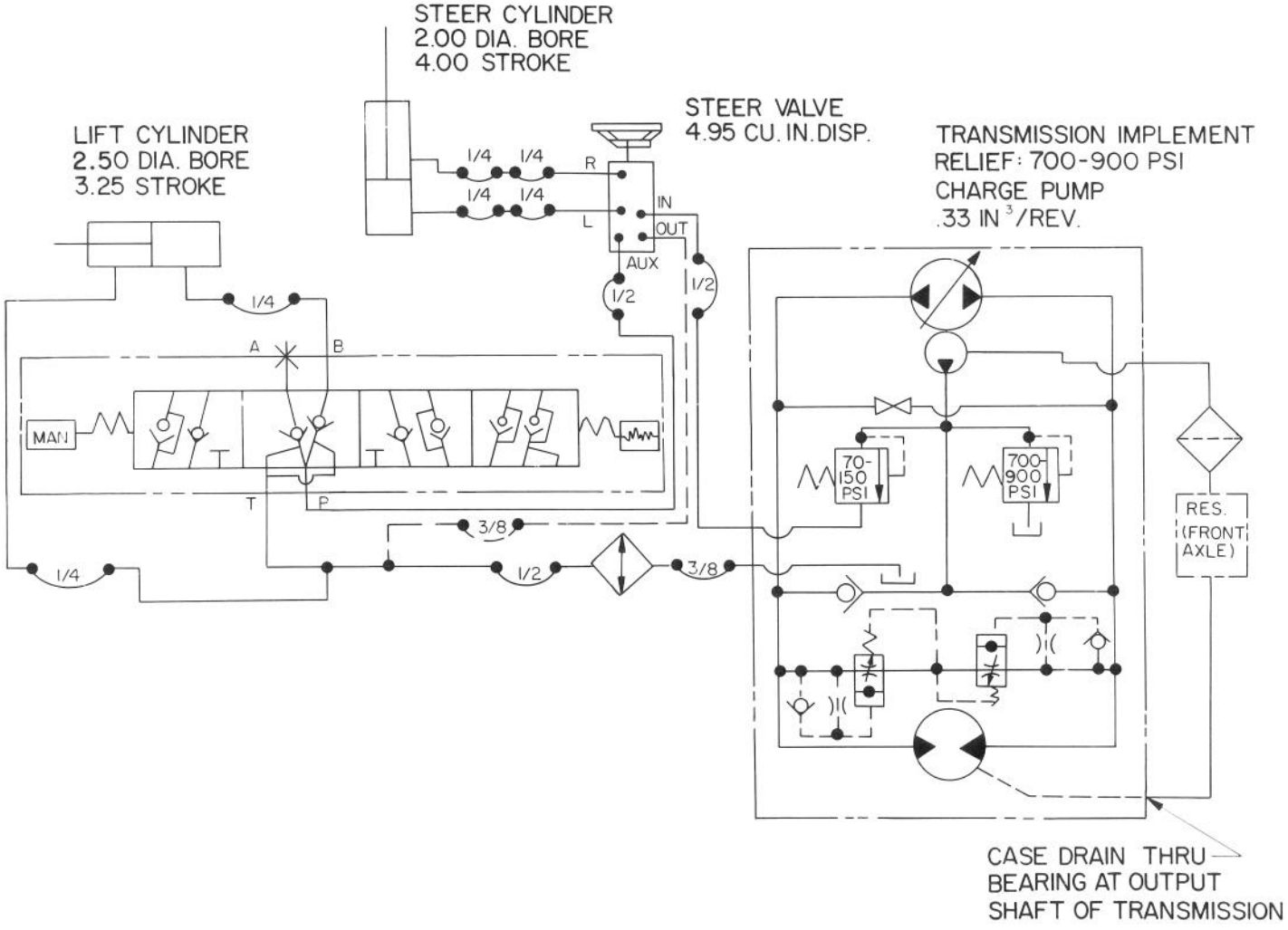
POWER STEERING VALVE ASSEMBLY NO. 63-9250

Ref. No.	Part No.	Description	No. Used
1		Ring - Seal	5
2		Ring - Valve	1
3		Plate - Valve	1
4		Spring	3
5		Pin - Alignment	9
6		Manifold - Isolation	1
7		Ring - Metering	1
8		Hex Drive Assy.	1
9		Link - Drive	1
10		Screw - Hex. Hd. Socket	11
11		Seal - Commutator	1
12		Cover - Commutator	1
13		Commutator	1
14		Ring - Commutator	1
15		Stator	1
16		Rotor	1
17		Spacer - Drive Link	1
18		Plug	1
19		O-Ring	1
20		Ball	1
21		Nut - Hex	4
22		Cover - Port	1

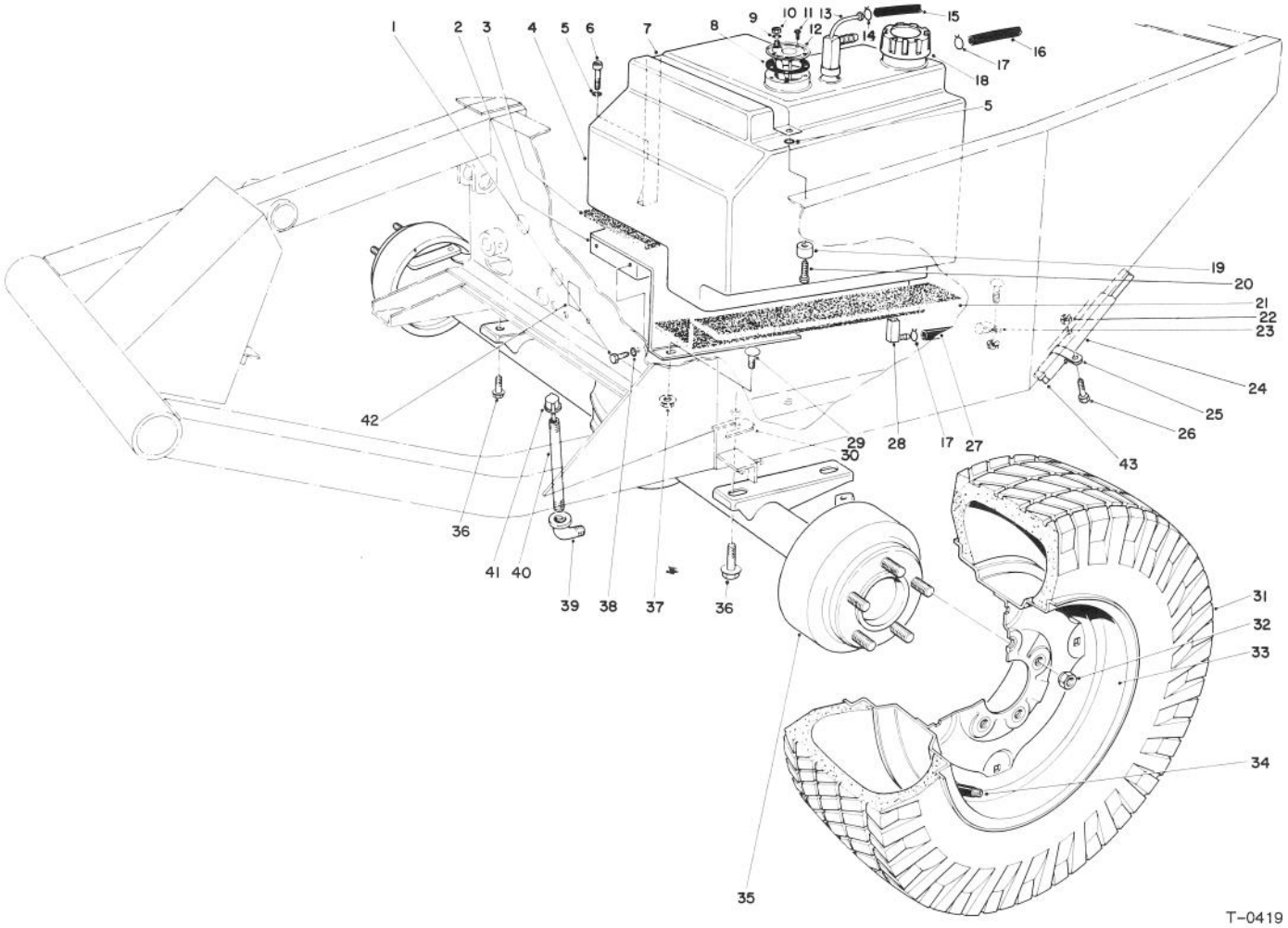
Ref. No.	Part No.	Description	No. Used
23		O-Ring	5
24		Manifold - Port	1
25		Spring	3
26		Plate - Upper Cover	1
27	3220-6	Nut	1
28	66-9770	Seal	1
29	66-9780	Bushing	1
30		Spacer - Thrust Bearing	1
31		Spacer - Seal	1
32		Ring - Back Up	1
33		Seal—Face	1
34		Bearing - Thrust	1
35		Plate - Drive	1
36	66-9850	Bolt - Special	4
37	66-9860	Upper Cover & Jacket	1
38	66-9870	Plate - Retaining	1
39	66-9880	Washer - Retaining Plate	1
40	66-9890	Ring - Retaining	1
41	66-9900	Shaft - Input	1
*	66—9970	Spring Kit	1
*	66-9980	Seal Kit	1
*	66-9990	Needle Roller Kit	1

*Not Illustrated

HYDRAULIC SCHEMATIC



T-0418

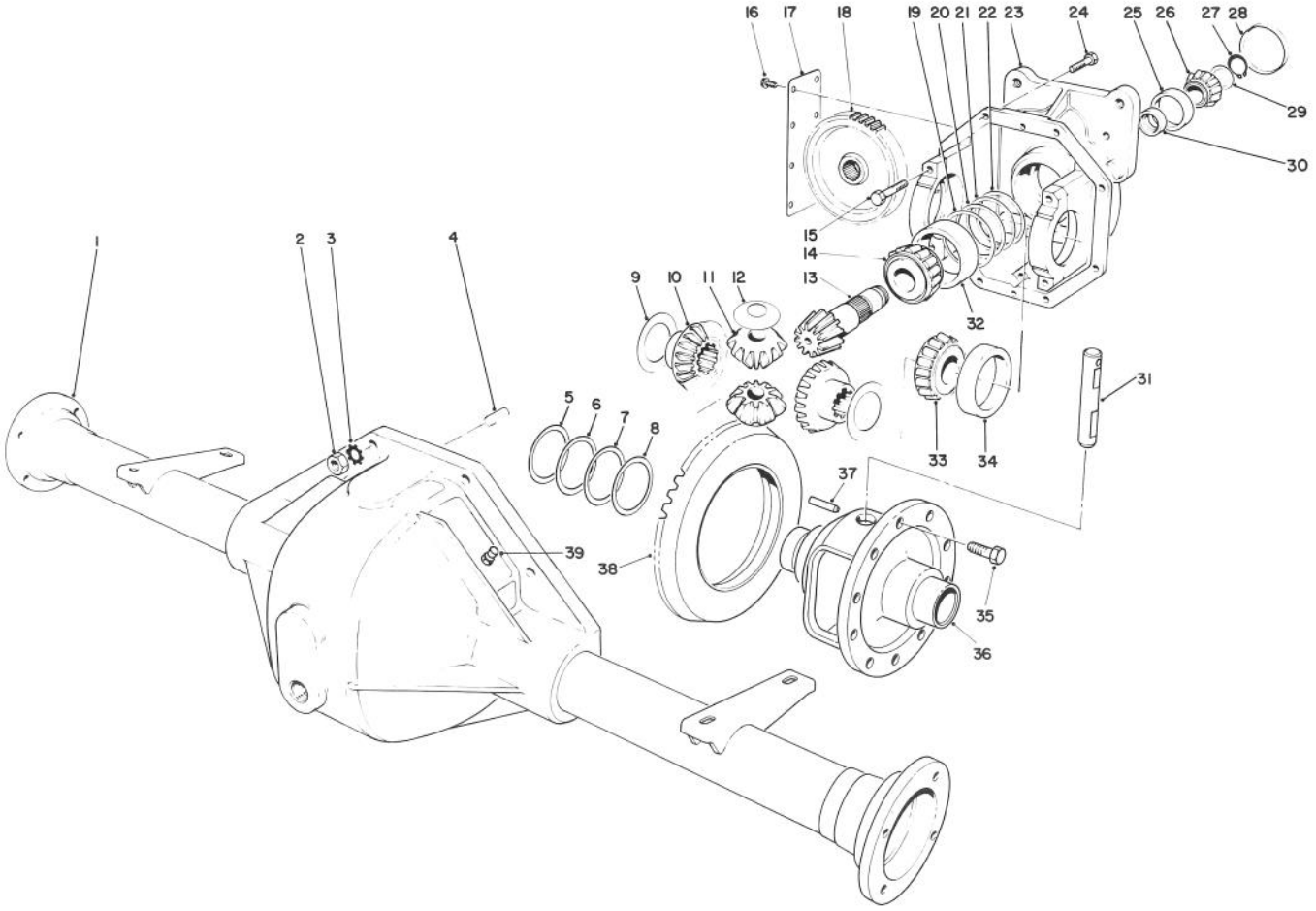


FRONT AXLE & FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104-6	Screw - Self Tapping	2
2	68-9760	Fuel Tank Base	1
3	21-3600	Foam - Tank Support	1
4	43-4150	Fuel Tank (Incl. Ref. #13 & 14)	1
5	3253-3	Washer - Lock	2
6	321 04—96	Screw - Cap, Hex. Hd.	1
7	37-9550	Strap - Fuel Tank	1
8	62-7650	Gasket	1
9	3253-17	Washer - Lock	1
10	3219-14	Nut	1
11	32144-53	Screw - Thread Forming	5
12	62-6840	Sender - Fuel Level	1
13	43-4160	Fitting - Return & Vent	1
14	2412-79	Clamp	1
15	43-4230	Hose Return	1
16	43-5690	Hose - Vent, Fuel Tank	1
17	2412-6	Clamp	2
18	55-3572	Fuel Cap	1
19	22-7810	Spacer	1
20	321-6	Screw - Cap, Hex. Hd.	1
21	21-3610	Foam - Tank Support	1
22	3296-20	Nut - Lock	2

Ref. No.	Part No.	Description	No. Used
23	2412-4	Clamp	1
24	56-7980	Sleeve - Protective	1
25	2412-39	R-Clamp	2
26	322-3	Screw - Cap, Hex. Hd.	2
27	63-9640	Hose Fuel	1
28	43—41 90	Fitting Assembly	1
29	3230-2	Bolt - Carriage	3
30	42-6080	Shim - Axle	A/R
31	231-101	Tire	2
32	23-7270	Nut - Wheel	10
33	217-117	Rim	2
34	232-31	Valve Stem w/Cap	2
35	67-8220	Differential Assembly	1
36	32144-67	Screw - Cap, Thd. Forming	4
37	32128-20	Nut - Flange	3
38	3253-21	Washer - Lock	2
39	2811-9	Street Elbow	1
40	289-37	Pipe Nipple	1
41	23-5180	Dipstick	1
42	53-4430	Decal - Oil	1
43	68-9710	Hose - Steering Cylinder	2
*	231-90	Tube - Inner	2

*Not Illustrated



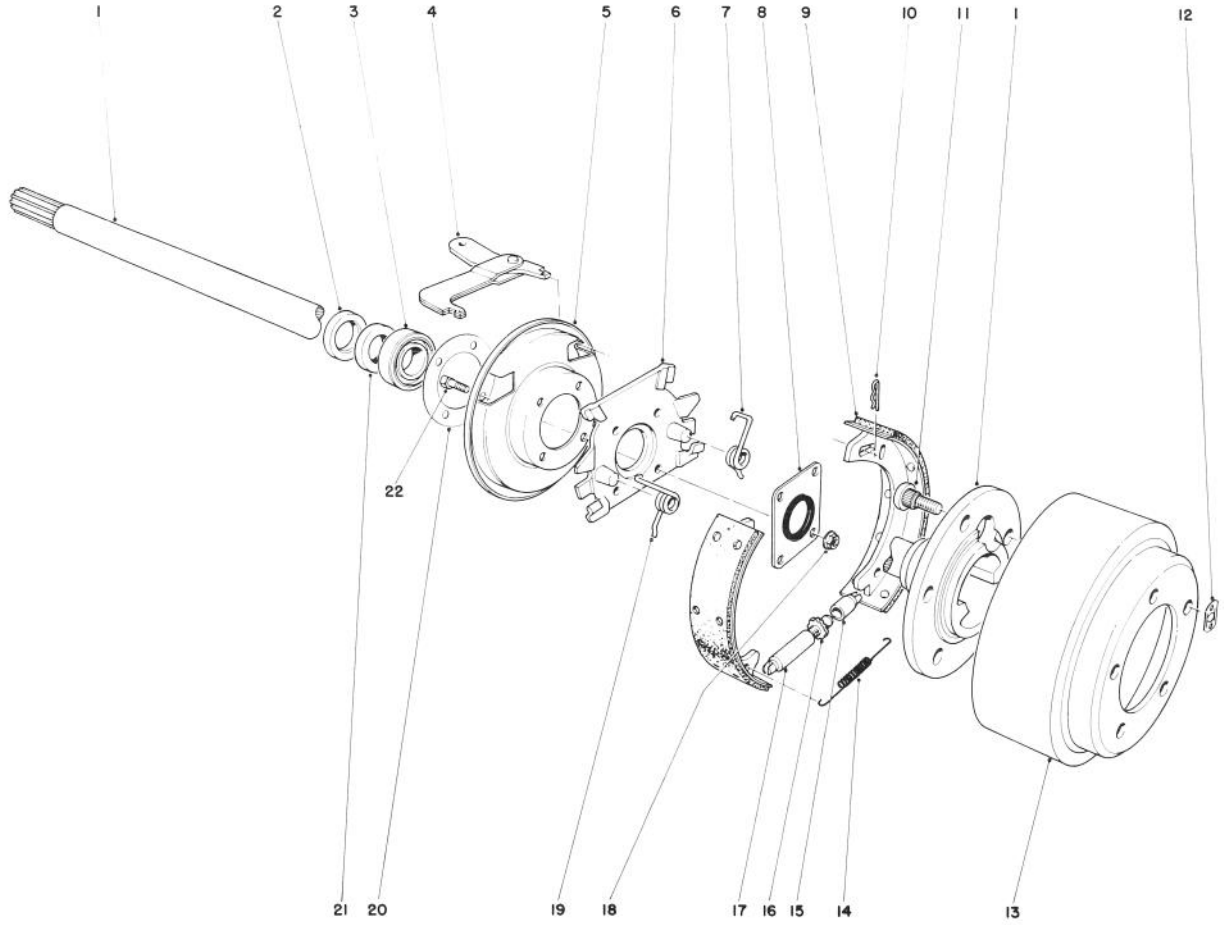
T-0420

DIFFERENTIAL ASSEMBLY NO. 67-8220

Ref. No.	Part No.	Description	No. Used
1	43-6840	Lower Housing	1
2	3219-2	Nut	8
3	3255-8	Washer - Lock	8
4	21-8270	Dowel Pin	2
5	21-8090	Adjust. Shim .003	A/R
6	21-8100	Adjust. Shim .005	A/R
7	21-8110	Adjust. Shim .010	A/R
8	21-8120	Adjust. Shim .030	A/R
9	21-7720	Washer - Thrust	2
10	24-8790	Differential Bevel Gear Side	2
11	21-7690	Pinion Gear	2
12	21-7730	Washer - Thrust	2
13		Drive Pinion (Incl. Ref. #38)	1
14	43—6760	Tapered Roller Bearing Cone	1
15	324-23	Screw - Cap, Hex. Hd.	4
16	12-5450	Screw - Thd. Forming	8
17	21-7830	Gear Cover	1
18	21-8150	Spur—Gear	1
19	43-6710	Adjust. Shim .003	A/R
20	43-6711	Adjust. Shim .005	A/R
21	43-6712	Adjust. Shim .010	A/R
22	43-6713	Adjust. Shim .030	A/R
23	68-9770	Upper Housing (Incl. Ref. #15)	1
24	3210-7	Screw - Cap, Hex. Hd.	8
25	254-90	Bearing Cup	1
26	254-91	Bearing Cone	1

Ref. No.	Part No.	Description	No. Used
27	43-6550	Snap Ring	1
28	21-7850	Cup Plug	1
29	46-2210	Shim Pinion Bearing .031	A/R
*	46-2211	Shim Pinion Bearing .033	A/R
*	46-2212	Shim Pinion Bearing .035	A/R
*	46-2213	Shim Pinion Bearing .037	A/R
*	46-2214	Shim Pinion Bearing .039	A/R
*	46-2215	Shim Pinion Bearing .041	A/R
*	46-2216	Shim Pinion Bearing .043	A/R
*	46-2220	Shim Pinion Bearing .045	A/R
*	46-2221	Shim Pinion Bearing .047	A/R
*	46-2222	Shim Pinion Bearing .049	A/R
*	46-2223	Shim Pinion Bearing .051	A/R
*	46-2224	Shim Pinion Bearing .053	A/R
*	46-2225	Shim Pinion Bearing .055	A/R
	46-2226	Shim Pinion Bearing .057	A/R
30	21-8020	Pinion Bearing - Spacer	1
31	21-7700	Pinion Mate Shaft	1
32	43-6750	Tapered Roller Bearing Cup	1
33	254-65	Cone - Tapered Bearing	2
34	254-66	Cup - Tapered Bearing	2
35	21-7770	Drive Gear Screw	5
36	21-7670	Differential Case	1
37	32121-15	Pin - Roll	1
38		Ring Gear	1
39	72-9420	Vent Tube Assembly	1
	43-6510	Gear & Pinion Assembly (Incl. Ref. #13 & 38)	1

*Not Illustrated

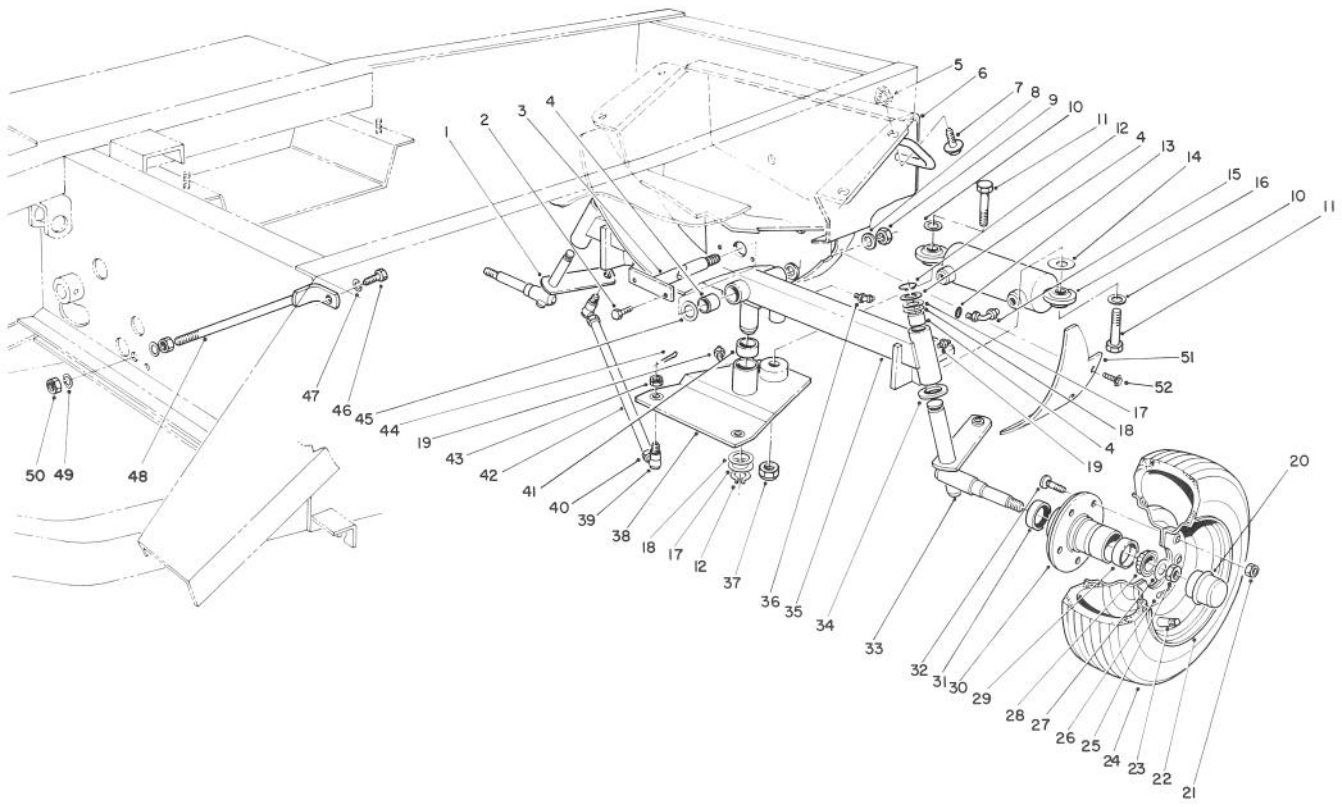


T-0421

BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	28-0650	Flanged Axle Shaft	2
2	21-8330	Oil Seal	2
3	21-8180	Bearing	2
4	24-9180	Strut & Lever Parking Brake	2
5	21-9450	Dust Shield	2
6	43-6810	Torque - Spider	2
7	21-9430	Spring - Shoe Return R.H.	2
8	28-0670	Oil Seal	2
9	43-2690	Shoe & Lining Assembly	4
10	21-9460	Retainer - Brake Lever	4
11	242-34	Axle Flange Stud	10

Ref. No.	Part No.	Description	No. Used
12	21-8360	Clip - Retaining	2
13	28-0680	Brake Drum	2
14	21-9440	Spring - Adjusting Screw	2
15	21-9390	Socket - Adjusting Screw	2
16	21-9370	Screw - Adjusting	2
17	21-9380	Nut - Pivot	2
18	43-6800	Nut - Lock	8
19	21-9420	Spring - Shoe Return L.H.	2
20	21-8320	Gasket - Wheel Bearing	2
21	24-8840	Ring - Wheel Bearing	2
22	28-0660	Screw - Cap, Hex. Hd.	8



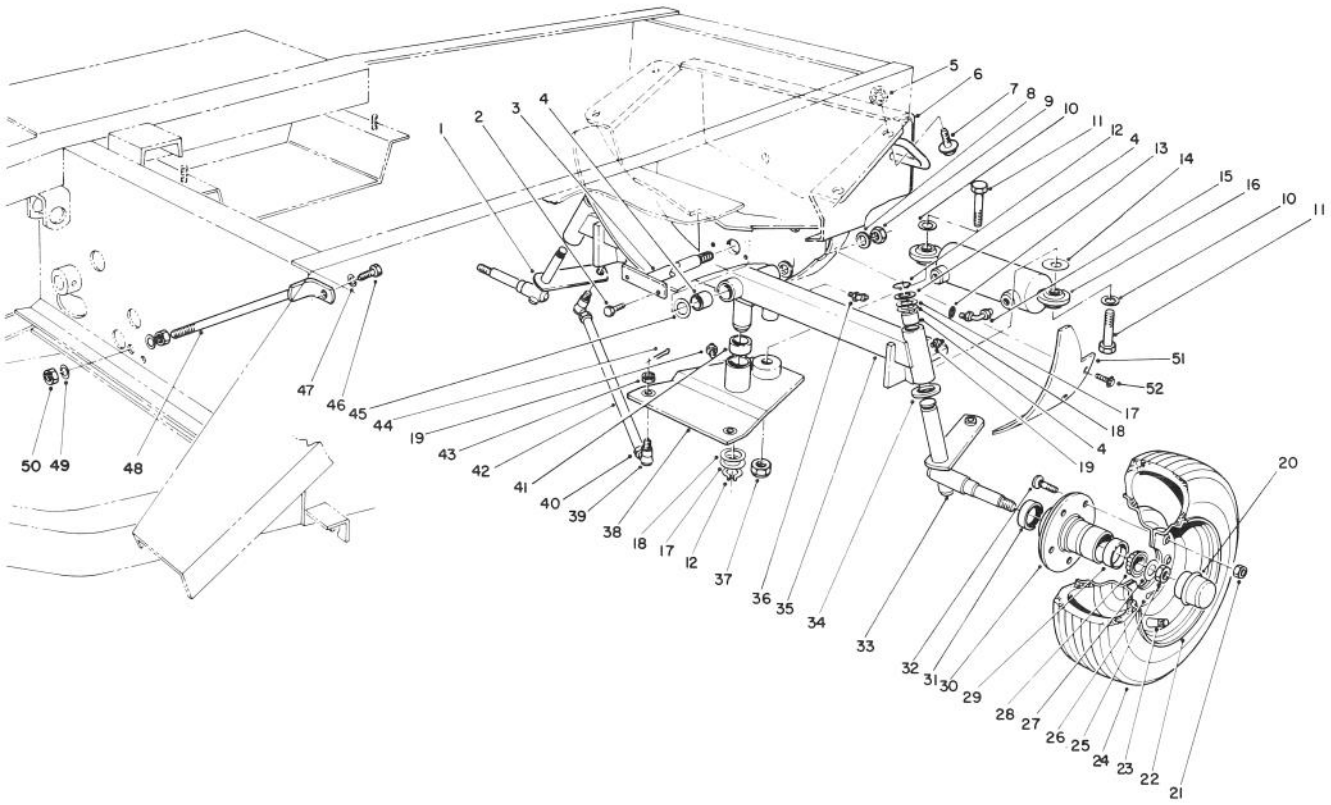
T-0422

REAR AXLE & WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-9180	Spindle Assembly R.H.	1
2	3234-14	Screw - Cap, Hex Hd.	2
3	67-8170	Pin - Rear Axle	1
4	67-1750	Bushing	6
5	32128-23	Nut - Lock, Flange	4
6	67-8130	Support —Axle	1
7	3434-32	Screw - Cap, Hex Flange	4
8	71-4540	Washer - Thrust	A/R
9	32146-20	Nut - Lock	1
10	67-9410	Washer - Flat	2
11	328-25	Screw - Cap, Hex Hd.	2
12	32151-36	Ring - Retaining	3
13		O-Ring	1
14	67-7250	Spacer - Ring	1
15	340-54	Fitting 45°	2
16	63-9240	Cylinder - Hydraulic	1
17	5-1226	Washer	3
18	10-8110	Washer - Thrust	A/R
19	302-5	Fitting - Grease	3
20	241-119	Dust Cap	2
21	242-50	Nut - Wheel	10
22	217-106	Wheel	2
23	232-31	Valve Stem w/Cap	2
24	231-105	Tire	2
25	32136-5	Nut - Slotted	2
26	3272-13	Pin - Cotter	2

Ref. No.	Part No.	Description	No. Used
27	3256-28	Washer - Flat	2
28	254-94	Cone - Bearing	4
29	254-72	Cup - Bearing	4
30	21-2820	Hub Wheel (Incl. Ref. #29 & 32)	2
31	253-129	Closure	2
32	10-6830	Stud - Drive	10
33	63-9170	Spindle Assembly L.H.	1
34	256-121	Bushing - Thrust	2
35	67-9160	Axle - Rear (Incl. Ref. #4)	1
36	302-11	Fitting - Grease	1
37	32128-45	Nut - Lock	2
38	63-9220	Steering Pivot (Incl. Ref. #41)	1
39	21-0140	Socket Assembly R.H. Thd. (Incl. Ref. #43)	2
*	21-0150	Socket Assembly L.H. Thd. (Incl. Ref. #43)	2
40	3220-5	Nut - Jam, R.H. Thd.	2
*	3220-12	Nut - Jam, L.H. Thd.	2
41	256-242	Bushing	2
42	21-1990	Tie Rod Assembly	2
43	32136-4	Nut - Slotted	4
44	3272-6	Pin - Cotter	4
45	56-2460	Washer	A/R

*Not Illustrated

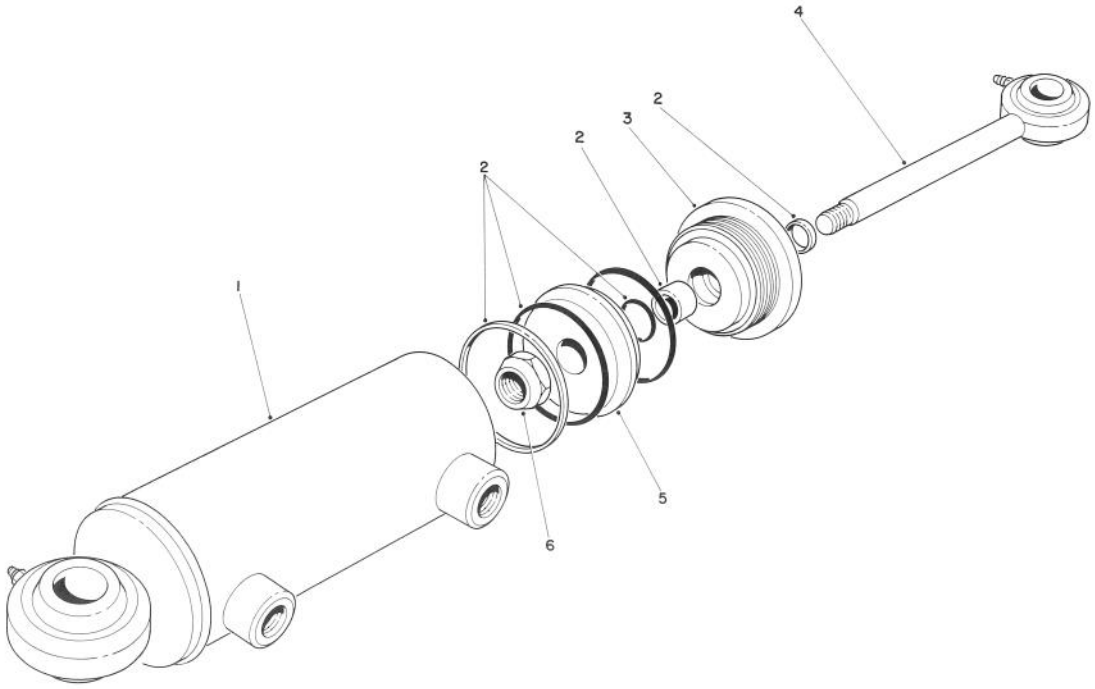


T-0422

REAR AXLE & WHEEL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
46	323-6	Screw - Cap, Hex Hd.	1
47	3253-21	Washer - Lock	1
48	24-9830	Support Axle	1
49	3256-6	Washer - Flat	2

Ref. No.	Part No.	Description	No. Used
50	3217-9	Nut	2
51	71-4850	Cover Flywheel Guard	1
52	32144-10	Screw - Cap,Thd. Forming	2

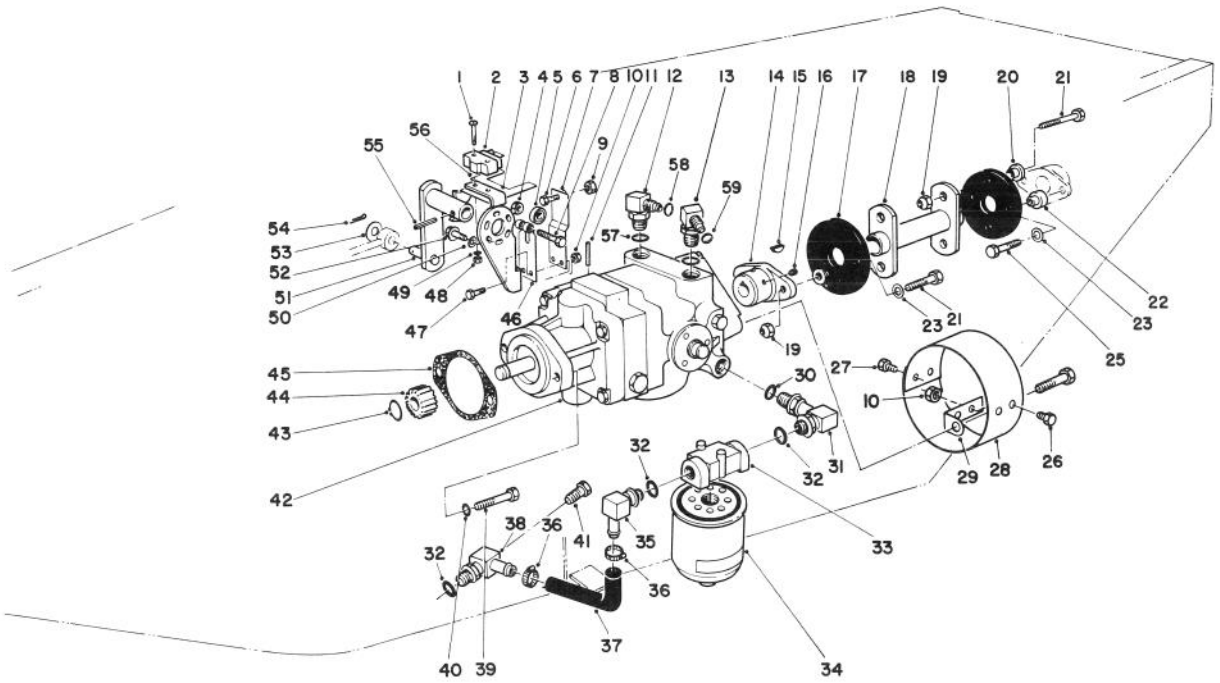


T-0423

HYDRAULIC STEERING CYLINDER ASSEMBLY NO. 63-9240

Ref. No.	Part No.	Description	No. Used
1		Tube Assembly	1
2	66-1960	Seal Kit	1
3	66-1950	Gland	1
4	66-1910	Piston Rod Assembly	1

Ref. No.	Part No.	Description	No. Used
5	66-1940	Piston	1
6	66-1930	Nut - Lock	1

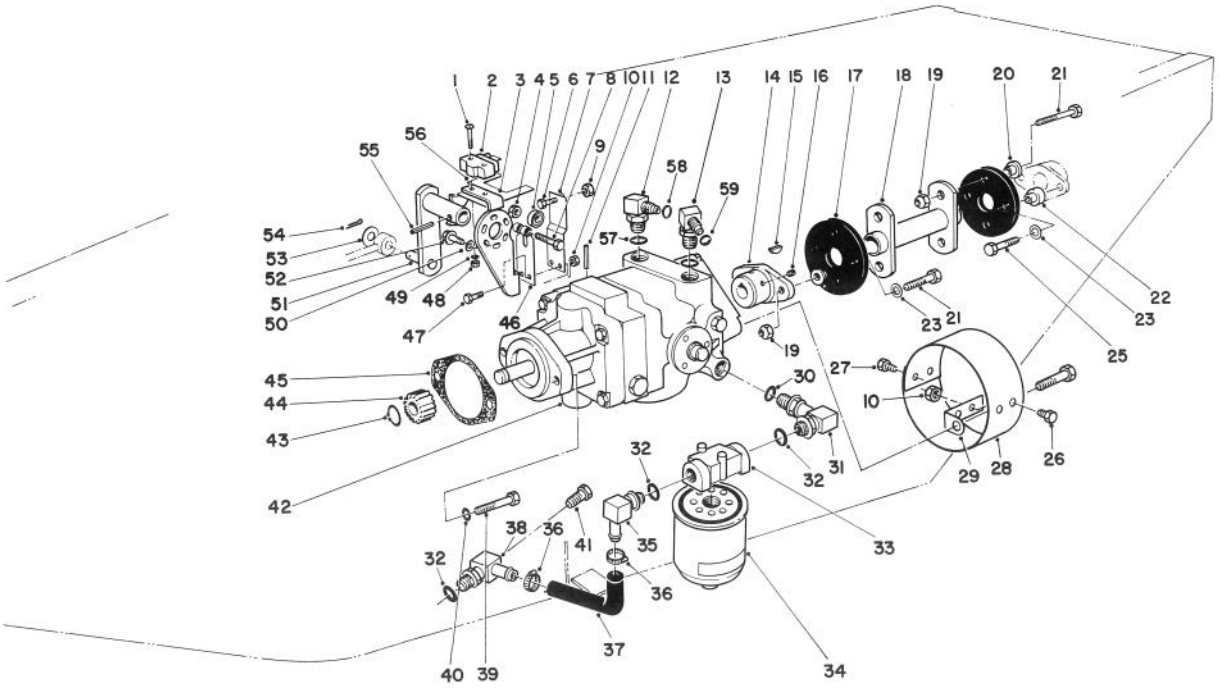


T-0424

HYDROSTATIC TRANSMISSION

Ref. No.	Part No.	Description	No. Used
1	3249-11	Screw - Mach. Rd. Hd.	2
2	29-6163	Micro Switch	1
3	29-6120	Pump Plate	1
4	3296-29	Nut - Lock	1
5	251-259	Ball Bearing	1
6	3210-7	Screw - Cap, Hex. Hd.	1
7	29-6170	Extended Leaf Spring	1
8	322—1 7	Screw - Cap, Hex. Hd.	1
9	3219-2	Nut - Hex	1
10	3296-42	Nut - Lock	6
11	32121-6	Pin - Roll	1
12	340-77	Elbow	1
13	340-99	Elbow	1
14	33-4380	Pump Hub	1
15	3257-32	Woodruff Key	1
16	3241-5	Screw - Set, Sq. Hd.	2
17	44-2230	Rubber Coupling	
18	46-6390	Drive Coupling	1
19	32152-1	Nut - Lock	8
20	27-6600	Spacer - Rubber Coupling	6
21	322-6	Screw - Cap, Hex. Hd.	6
22	27-6590	Spacer - Rubber Coupling	2
23	3256-3	Washer - Flat	4
24	3253-4	Washer - Lock	2
25	322-8	Screw - Cap, Hex. Hd.	2
26	321-2	Screw - Cap, Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
27	321-4	Screw - Cap, Hex. Hd.	2
28	54-9300	Cover	1
29	54-9290	Bracket	2
30	237-80	O-Ring	1
31	68-8660	Elbow	1
32	237-81	O-Ring	3
33	68-8990	Head - Filter	1
34	67-8110	Oil Filter	1
35	353-987	Elbow	1
36	2412-34	Clamp - Hose	2
37	68-9650	Hose - Axle	1
38	70-2620	Elbow - 90°	1
39	323-7	Capscrew	2
40	3253-21	Washer - Lock	2
41	353-508	Plug - Drain	1
42	71-4370	Transmission - Inline	1
43	32120-72	Ring - Retaining External	1
44	23-4810	Gear Transmission Output	1
45	41-8760	Gasket Transmission	1
46	29-6150	Leaf Spring	1
47	321-4	Screw - Cap, Hex. Hd,	2
48	3217-16	Nut - Hex.	2
49	3254-9	Washer - Lock	2
50	3255-7	Washer - Lock	3
51	28-9570	Pump Lever	1
52	11-9760	Screw - Self Tapping	3

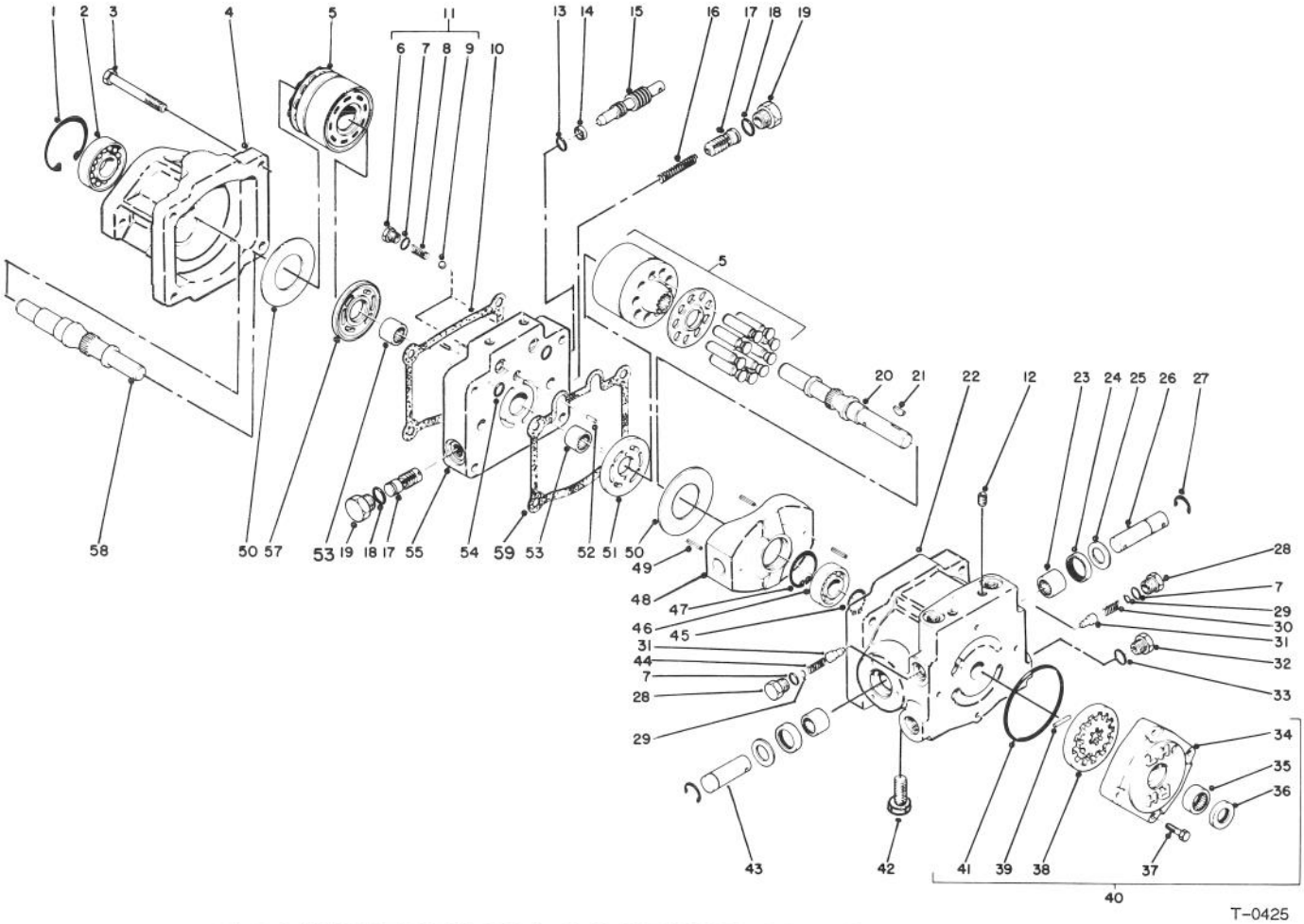


T-0424

HYDROSTATIC TRANSMISSION (Continued)

Ref. No.	Part No.	Description	No. Used
53	3256-6	Washer - Flat	1
54	3272-10	Cotter Pin	1
55	32121-24	Pin - Roll	1
56	46-8810	Stop - Leaf Spring	1

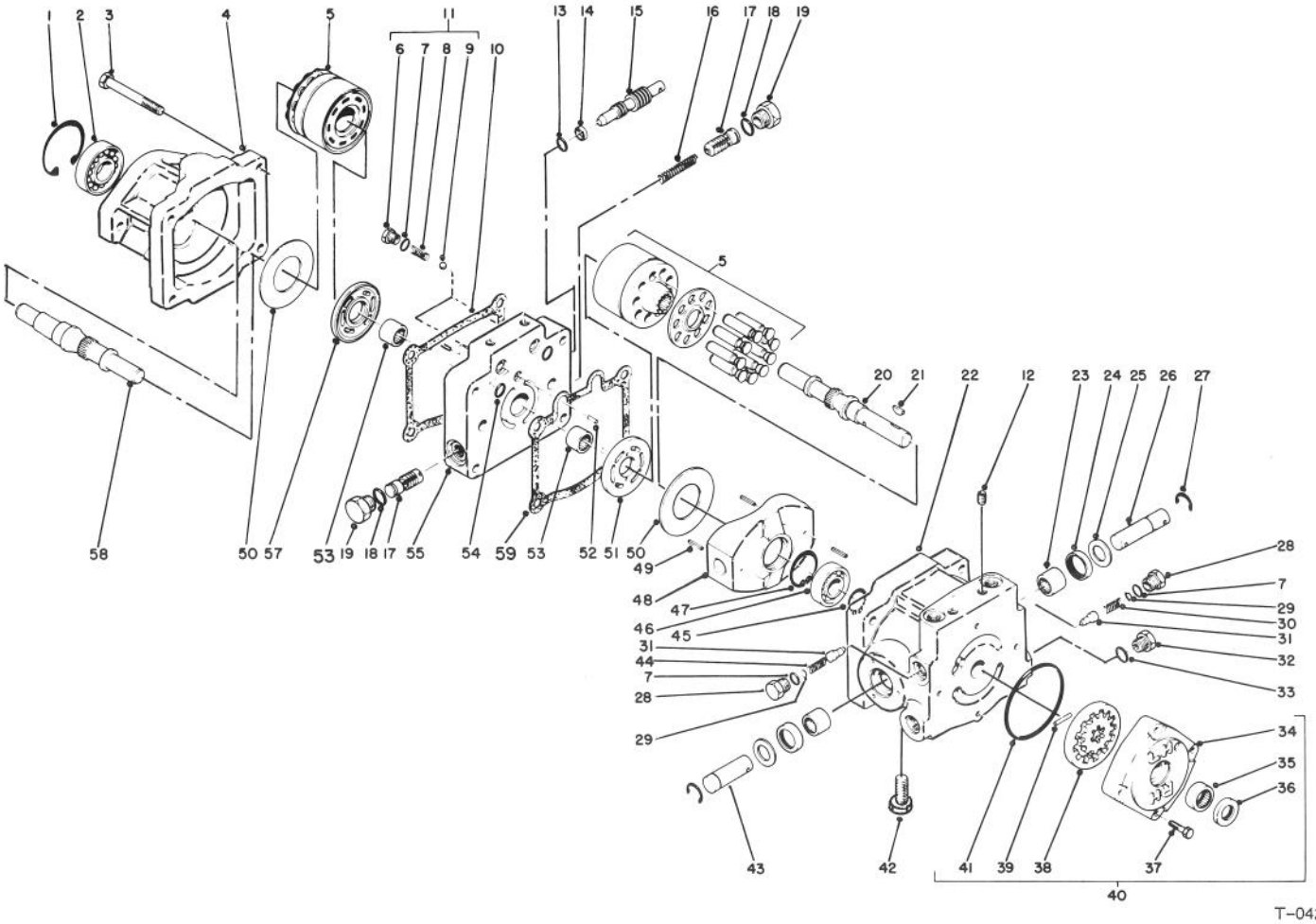
Ref. No.	Part No.	Description	No. Used
57	237-42	O-Ring	2
58	237-22	O-Ring	1
59	237-30	O-Ring	1



TRANSMISSION ASSEMBLY NO. 71-4370

Ref. No.	Part No.	Description	No. Used
1	32120-8	Retaining Ring	1
2	72-3750	Ball Bearing	1
3	323-13	Screw - Cap, Hex. Hd.	4
4	67-9080	Motor Housing	1
5	48-1800	Cylinder Block Kit	2
6	25-2650	Check Valve Plug	2
7	237-86	O-Ring	4
8	252640	Valve Spring	2
9	252490	Ball	2
10	67-9100	Gasket	1
11	25-3180	Check Valve Kit (Incl. Ref. #6-9)	2
12	285-17	Pipe Plug	6
13	237-22	O-Ring	1
14	25-2630	Back-Up Ring	1
15	25-2620	By-Pass Valve	1
16	252610	Accel. Valve Spring	1
17	25-2410	Accel. Valve Assembly	2
18	76-1900	O-Ring	2
19	353-550	Plug - Hex. Hd.	2
20	75-9560	Pump Shaft	1
21	3257-32	Woodruff Key	1
22	54-7890	Pump Housing (Incl. Ref. #12 & 23-25)	1
23	252-82	Needle Bearing	2
24	25-3210	Lip Seal	2

Ref. No.	Part No.	Description	No. Used
25	25-2510	Washer - Flat	2
26	25-2580	Trunion Shaft	1
27	32151-46	Retaining Ring	2
28	25-2460	Plug - Hex. Hd.	2
29	25-2470	Shim Pack	2
30	25-2570	Valve Spring	1
31	25-2560	Relief Valve Cone	2
32	353-551	Plug - Hex. Hd.	1
33	237-80	O-Ring	1
34	25-2550	Charge Pump Housing	1
35	67-8050	Needle Bearing	1
36	67-8060	Lip Seal	1
37	322-4	Screw - Cap, Hex. Hd.	4
38	25-2680	Gerotor Assembly	1
39	25-2530	Headless Straight Pin	1
40	25-3190	Charge Pump (Incl. Ref. #34-39 & 41)	1
41	237-95	O-Ring	1
42	67-9090	Plug	1
43	25-2500	Trunion Shaft	1
44	25-2480	Valve Spring	1
45	32120-15	Retaining Ring	1
46	251-8	Ball Bearing	1
47	32120-11	Retaining Ring	1
48	25-2450	Variable Swashplate	1
49	32121-91	Pin - Coil ,Spring	3

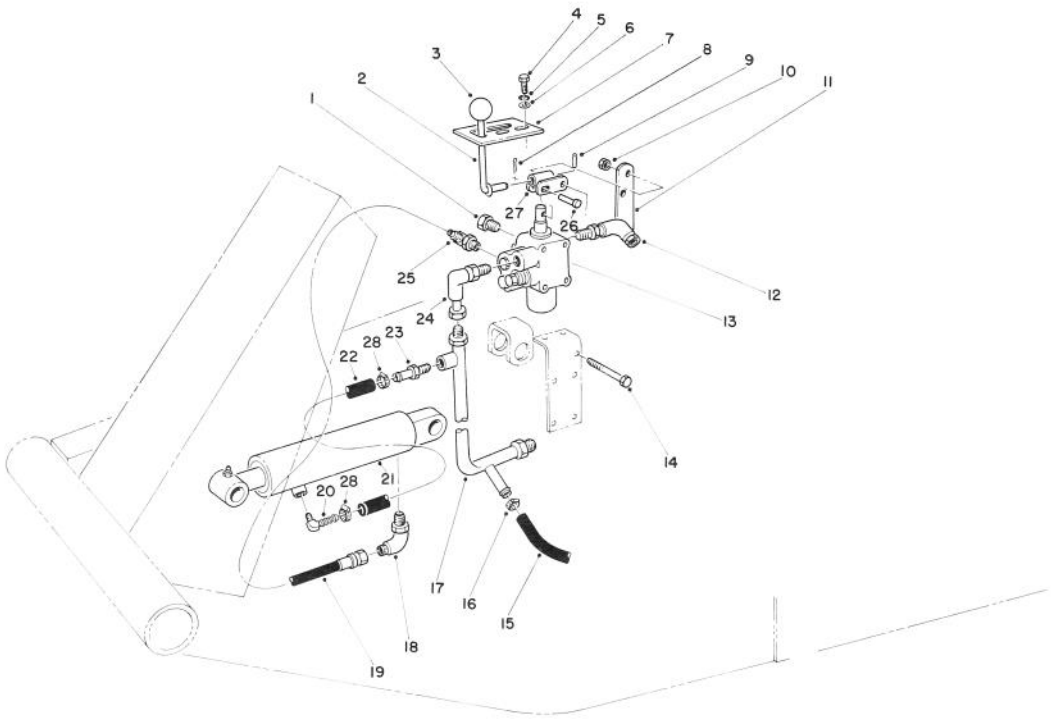


T-0425

TRANSMISSION ASSEMBLY NO. 71-4370 (Continued)

Ref. No.	Part No.	Description	No. Used
50	25-2380	Thrust Plate	2
51	25-2440	Pump Valve Plate	1
52	25-2430	Dowel Pin	2
53	46-8400	Needle Bearing	2
54	62-4290	O-Ring	2

Ref. No.	Part No.	Description	No. Used
55	25-2420	Center Section	1
57	25-2390	Motor Valve Plate	1
58	46-8410	Motor Shaft	1
59	25-2400	Gasket	1



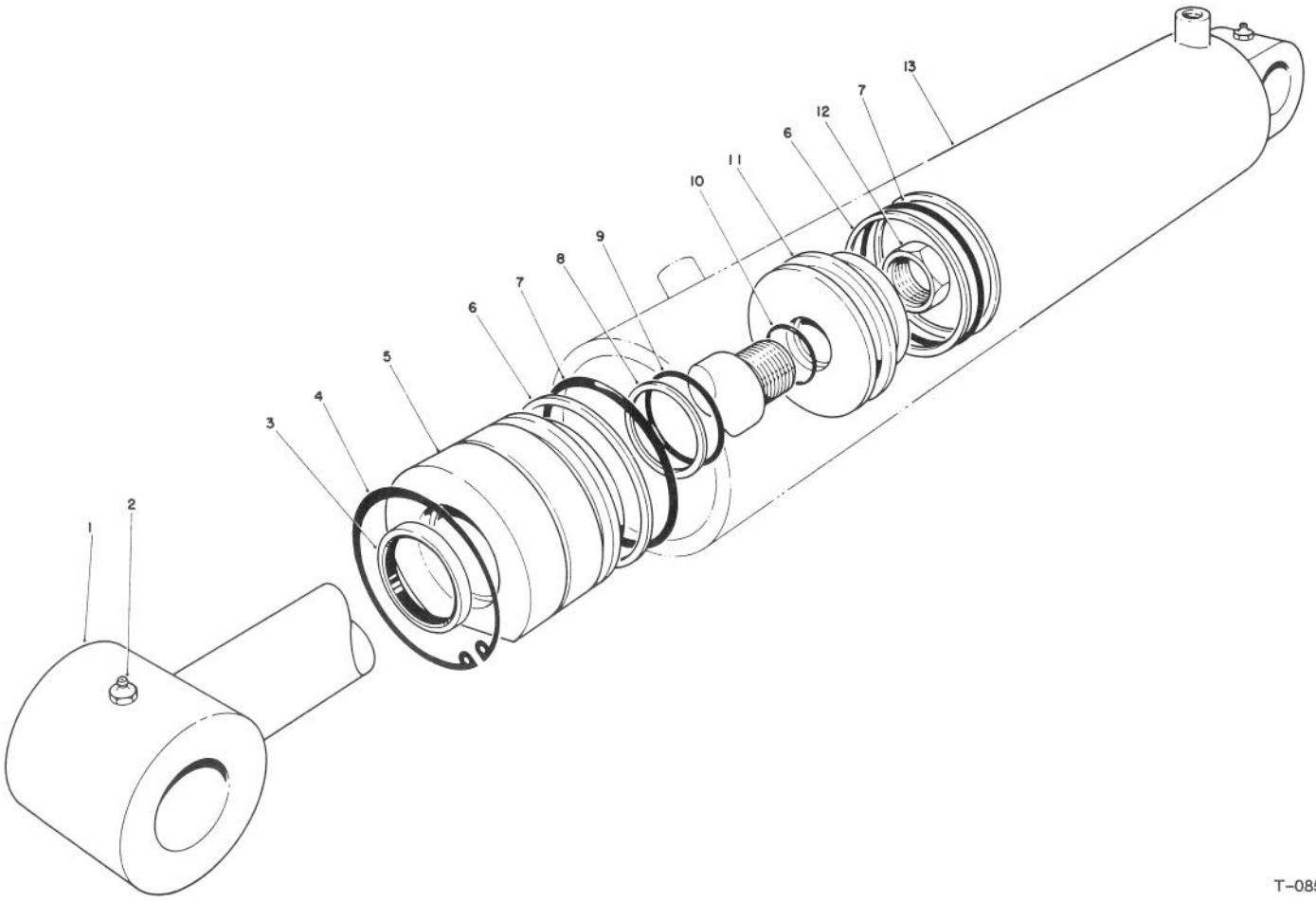
T-0426

VALVE & CYLINDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	353-512	Plug	1
2	21-8620	Lever Valve	1
3	233-21	Knob	1
4	321-4	Screw - Cap, Hex. Hd.	2
5	3253-3	Washer - Lock	2
6	3256-22	Washer - Flat	2
7	21-8640	Latch Valve Lever	1
8	3272-6	Cotter Pin	1
9	32121-73	Pin - Slotted Spring	1
10	3296-42	Nut - Lock	5
11	21-9010	Pivot Mount - Valve Lever	1
12	340-99	Fitting - 90° Elbow	1
13	43-1710	Valve Assembly	1
14	321-23	Screw - Cap, Hex. Hd.	5
15	63-8990	Hose	1
16	2412-36	Clamp Hose	1
17	63-9260	Manifold - Valve	1

Ref. No.	Part No.	Description	No. Used
18	340-112	Elbow— 90°	1
19	71-3580	Hose - (Valve to Cylinder)	1
20	304-75	Fitting - 90° Barb	1
21	62-4250	Cylinder - Hydraulic	1
*	66-1250	Cylinder - Hydraulic (Optional)	1
22	65-2970	Line - Gas	1
23	304-73	Fitting - Straight Barb	1
24	340-110	Elbow - 90°	1
25	340-97	Fitting - 90°	1
26	283-17	Pin	1
27	21-8590	Link - Valve Lever	1
28	2412-108	Clamp - Hose	2
29	237-22	O-Ring	2
30	237-30	O-Ring	2
31	237-42	O-Ring	2
32	237-78	O-Ring	2

*Not Illustrated

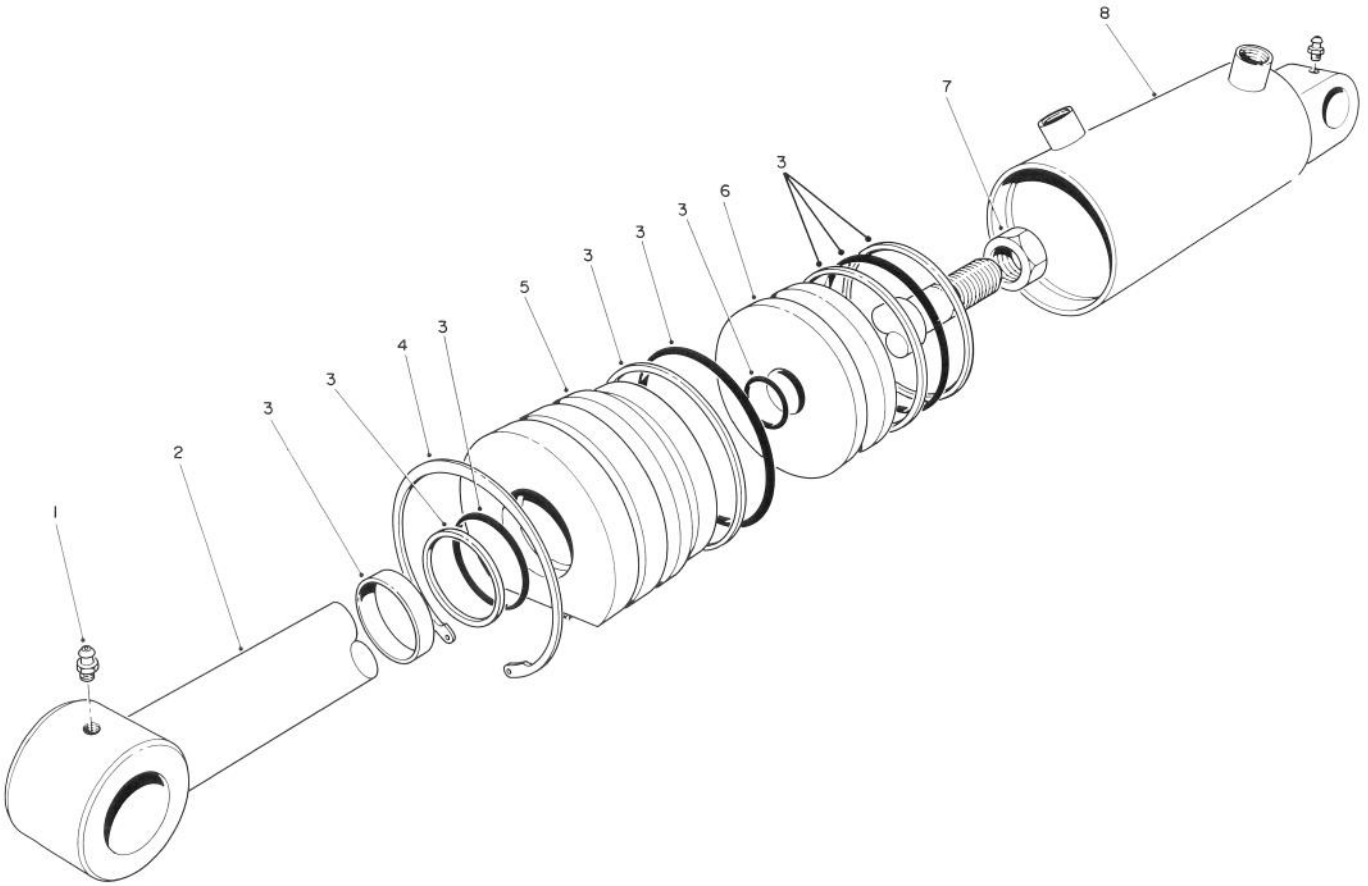


T-0859

HYDRAULIC LIFT CYLINDER ASSEMBLY NO. 62–4250 (2–1/2" Bore)

Ref. No.	Part No.	Description	No. Used
1	61–4980	Shaft – w/Clevis	1
2	302–55	Fitting – Grease	2
3		Seal – Dust	1
4	61–4990	Ring – Retaining	1
5	60–9780	Head	1
6		Ring – Back–up	3
7		O–Ring	2
8		Ring – Backup	1
9		O–Ring	1
10		O–Ring	1
11	60–9770	Piston	1
12	60–9760	Nut	1
†13		Barrel	1
*	61–4960	Seal Repair Kit (Incl. Ref. #3, 6–10)	1

†Not available separately.

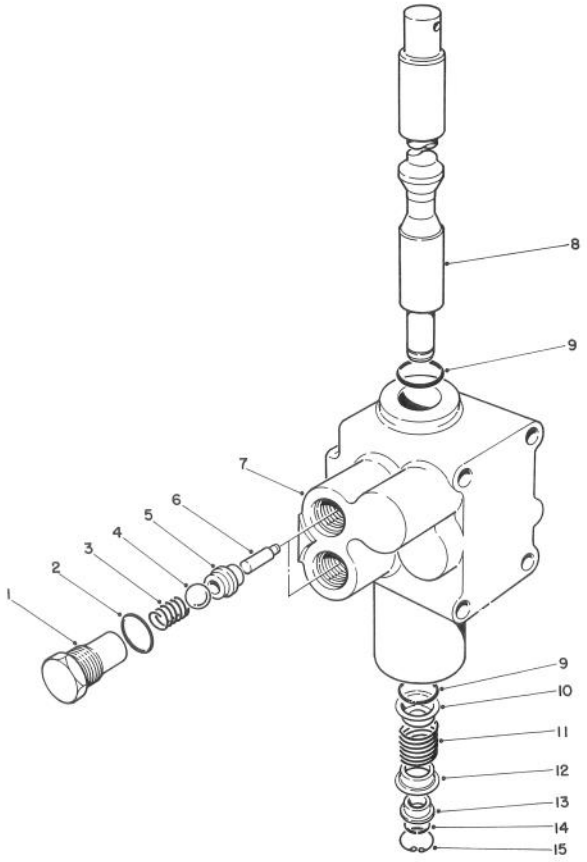


T-0527

HYDRAULIC LIFT CYLINDER ASSEMBLY NO. 66–1250 (3" Bore)

Ref. No.	Part No.	Description	No. Used
1	302–55	Grease Fitting	2
2	67–5480	Shaft	1
3	67–5500	Repair Kit	1
4	67–5470	Ring – Retaining	1
5	67–5460	Head	1
6	67–5450	Piston	1
7	60–9760	Nut – Hex	1
*8		Barrel	1

*Not available separately.

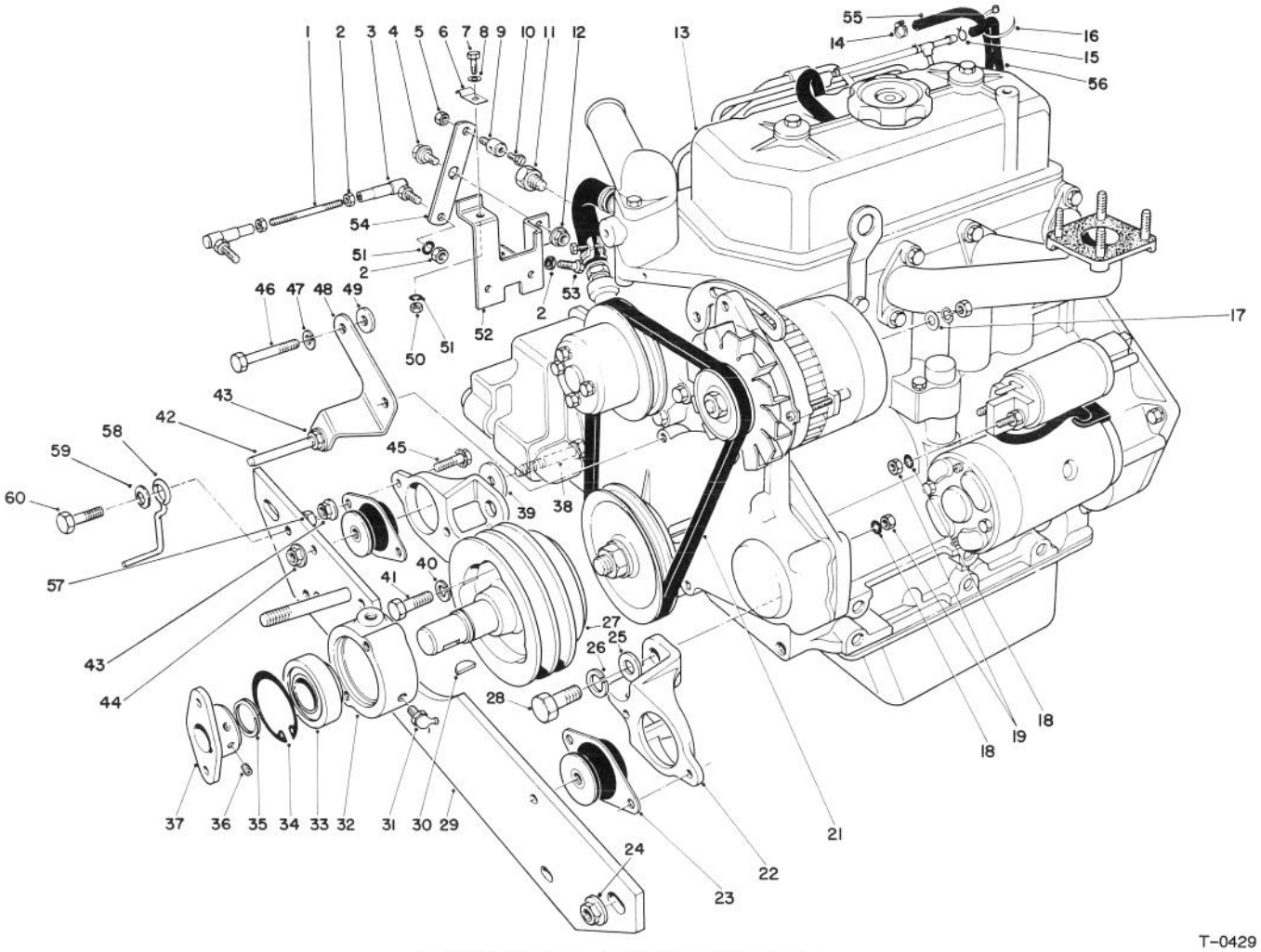


T-0428

CONTROL VALVE ASSEMBLY NO. 43-1710

Ref. No.	Part No.	Description	No. Used
1	22-8330	Plug	2
2	237-42	O-Ring	2
3	22-8340	Spring	2
4	22-8350	Ball	2
5	22-8370	Seat - Check Valve	2
6	22-8360	Pin - Cam	2
7	43-1730	Body	1

Ref. No.	Part No.	Description	No. Used
8	22-8420	Spool	1
10	22-8380	Spring Retainer	1
11	22-8410	Spring	1
12	22-8390	Spring Retainer	1
13	22-8400	Spacer Float	1
14	22-8480	Spring Ring Spool	1
15	22-8490	Snap Ring	1

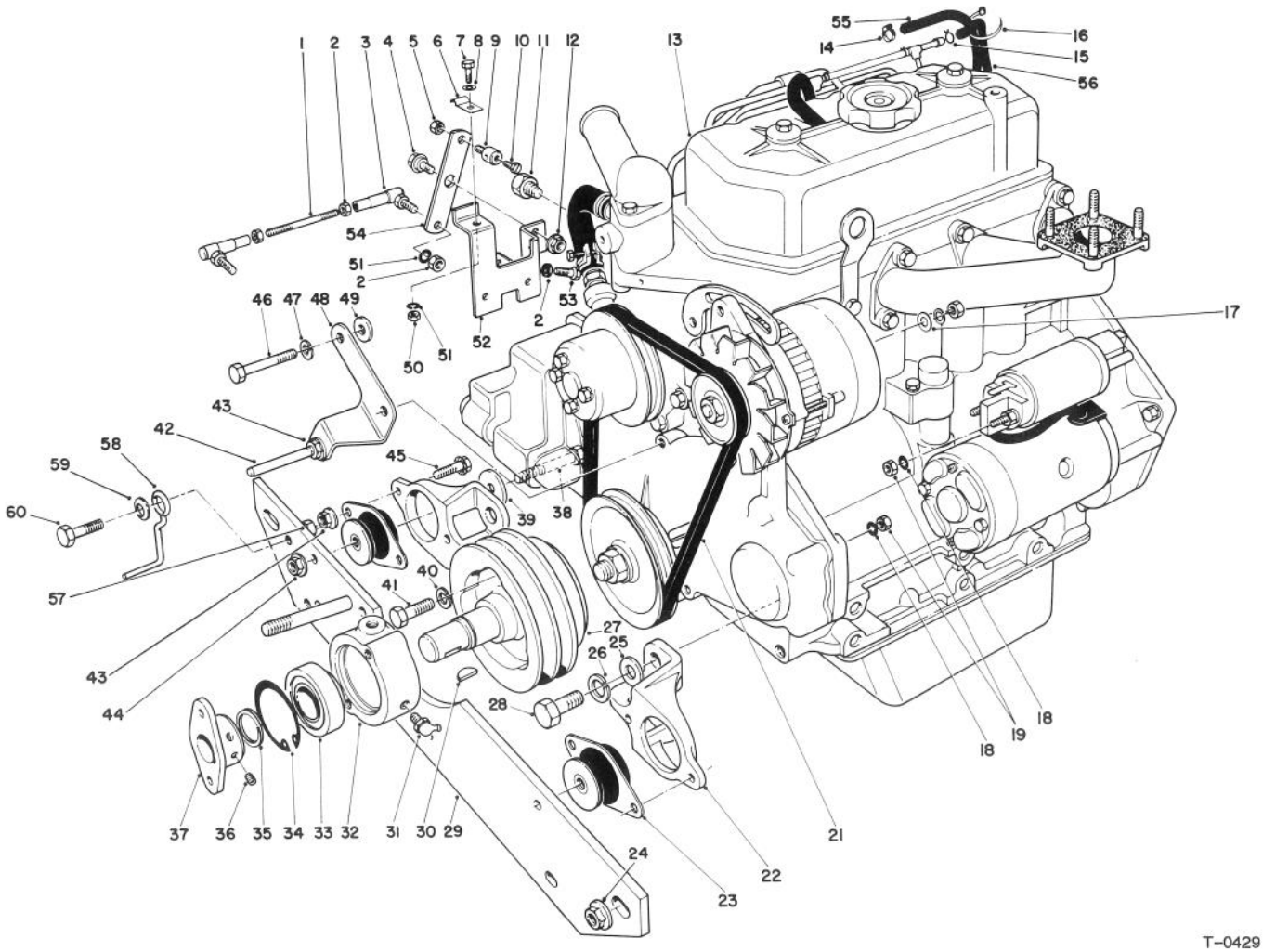


T-0429

ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	43-3770	Link - Throttle	1
2	3219-1	Nut	5
3	18-1720	Ball Joint Assembly	2
4	37-8770	Bolt - Shoulder	1
5	3296-20	Nut - Lock	1
6	2412-31	Clamp - Bodine	1
7	321-4	Screw - Cap, Hex. Hd.	1
8	3256-22	Washer - Flat	1
9	43-3780	Swivel - Throttle Control	1
10	25-8640	Screw - Machine	1
11	43-1940	Adapter - Temp. Gauge	1
12	32152-1	Nut - Lock, Flange	1
13	43-1440	Engine	1
14	2412-108	Clamp - Worm Drive	1
15	2412-79	Clamp	1
16	3290-378	Cable Tie	1
17	5-3637	Washer	1
18	3254-2	Washer - Lock, Int. Tooth	3
19	42-9580	Nut	2
21	42-9100	Belt Fan	1
22	53-9710	Engine Mount	2
23	53-9680	Engine Mount - Rubber	2
24	32128-23	Nut - Lock, Flange	2
25	3256-64	Washer - Flat	4
26	43-5950	Washer - Lock	4
27	43-3510	Pulley - Engine	1

Ref. No.	Part No.	Description	No. Used
28	43-3210	Screw - Cap, Hex. Hd.	4
29	75-9900	Engine Support - Front	1
30	3257-33	Key Woodruff	1
31	302-10	Grease Fitting	1
32	43-3720	Collar - Bearing	1
33	251-252	Ball Bearing	1
34	32120-22	Ring - Retaining, Internal	1
35	32120-69	Ring - Retaining, External	1
36	3245-1	Screw - Set, Socket Head	2
37	27-1960	Hub - Engine	1
38	324-12	Screw - Cap, Hex. Hd.	2
39	53-9480	Washer	2
40	42-9600	Washer - Lock	3
41	43-3190	Screw - Cap, Hex. Hd.	3
42	21-1820	Stud - Belt Retainer	2
43	3290-357	Nut - Lock, Flange	7
44	32128-37	Nut - Lock, Flange	2
45	3234-11	Screw - Cap, Hex. Hd.	4
46	43-3220	Screw - Cap, Hex. Hd.	2
47	3253-4	Washer - Lock	2
48	43-3790	Bracket Belt Guide	1
49	4-2390	Washer	2
50	3217-5	Nut	1
51	3253-3	Washer - Lock	3
52	43-3730	Bracket Throttle Control	1
53	329-7	Screw - Cap, Hex. Hd.	1

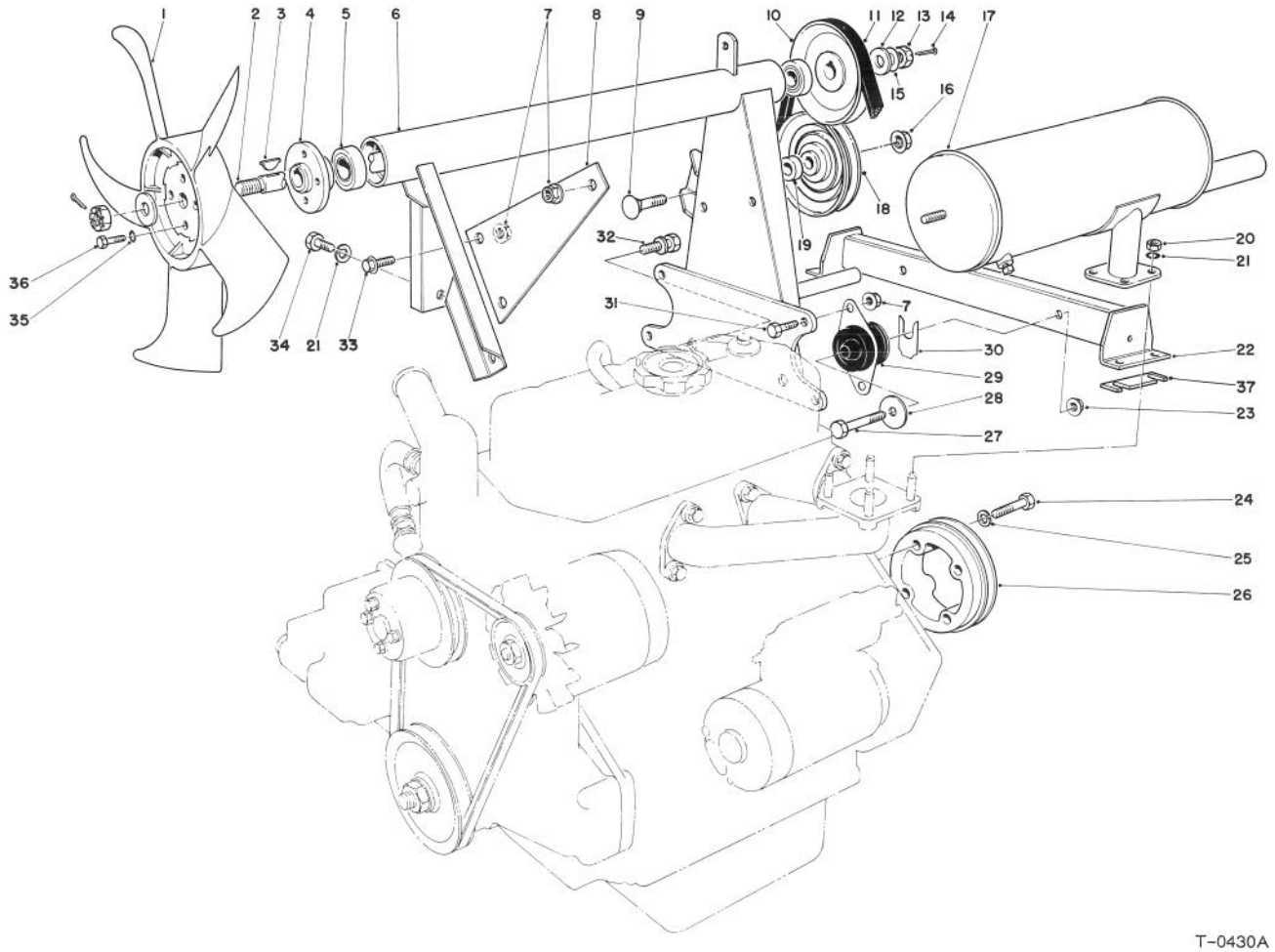


T-0429

ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
54	43-3760	Lever Throttle	1
55	47-7420	Hose	1
56	43-4230	Hose	1
57	32153-2	Nut - Lock	1

Ref. No.	Part No.	Description	No. Used
58	63-1400	Belt Guide	1
59	3290-224	Washer - Lock	1
60	3234-18	Screw - Cap, Hex. Hd.	1

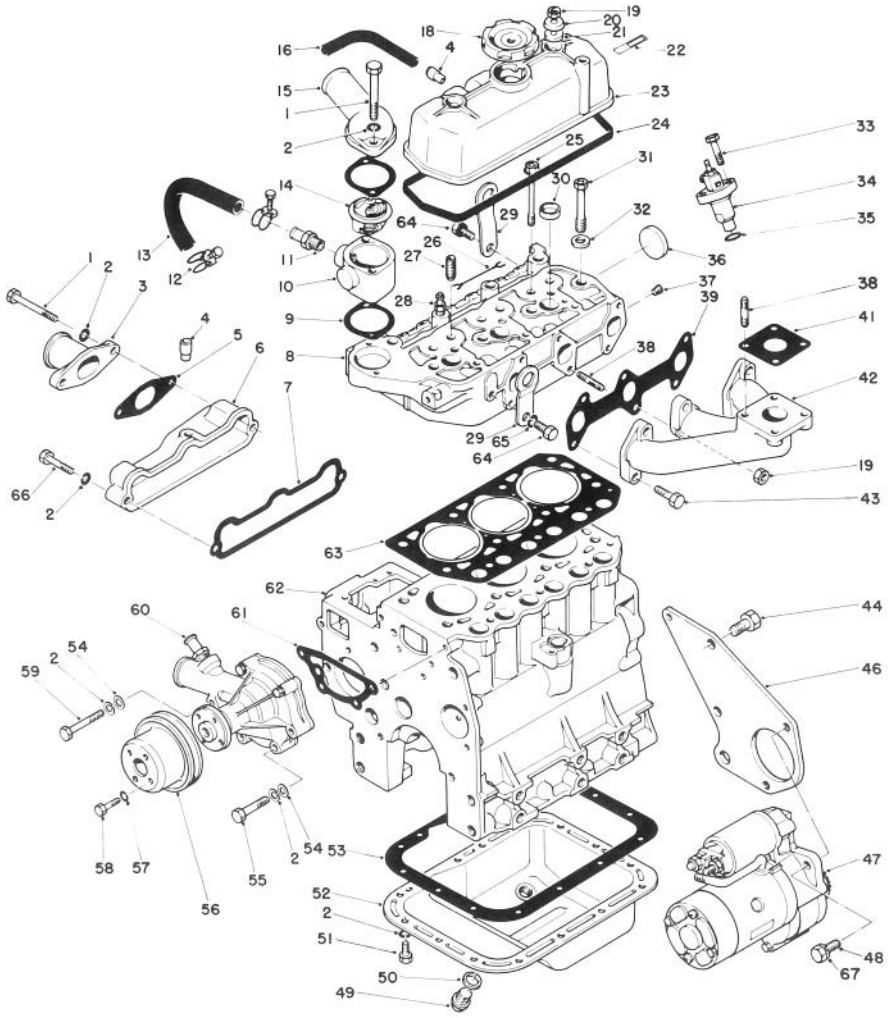


ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
1	43-1910	Fan - Cooling	1
2	43-3690	Fan - Shaft	1
3	3257-30	Key - Woodruff	2
4	43-3700	Hub-Fan	1
5	38-7820	Bearing	2
6	53-9750	Fan Mount	1
7	3290-357	Nut - Lock, Flange	8
8	43-3870	Support - Muffler	1
9	3233-14	Bolt - Carriage	1
10	43-3880	Pulley	1
11	43-5910	V-Belt	1
12	29-8910	Washer	2
13	32136-3	Nut - Hex. Slotted	2
14	3272-16	Cotter Pin	2
15	3-6803	Washer	A/R
16	32128-23	Nut - Lock, Flange	1
17	43-3850	Muffler	1
18	66-5310	Idler Pulley	1
19	66-5320	Spacer	1
20	42-9580	Nut	4

Ref. No.	Part No.	Description	No. Used
21	3253-4	Washer - Lock	5
22	77-3140	Engine Mount	1
23	32128-37	Nut - Lock, Flange	2
24	43-3200	Screw - Cap, Hex. Hd.	4
25	42-9600	Washer - Lock	4
26	43-3530	Pulley Flywheel	1
27	324-11	Screw - Cap, Hex. Hd.	2
28	53-9480	Washer	2
29	53-9680	Engine Mount - Rubber	2
30	42-6080	Shim	A/R
31	3234-11	Screw - Cap, Hex. Hd.	4
32	66-7030	Screw - Cap, w/Washer	2
33	3234-12	Screw - Lock, Flange	2
34	42-9230	Screw - Cap, Hex. Hd.	1
35	3253-3	Washer - Lock	4
36	321-3	Screw - Cap, Hex. Hd.	4
37	68-9110	Shim	A/R
*	68-9111	Shim	A/R
*	68-9112	Shim	A/R

*Not Illustrated

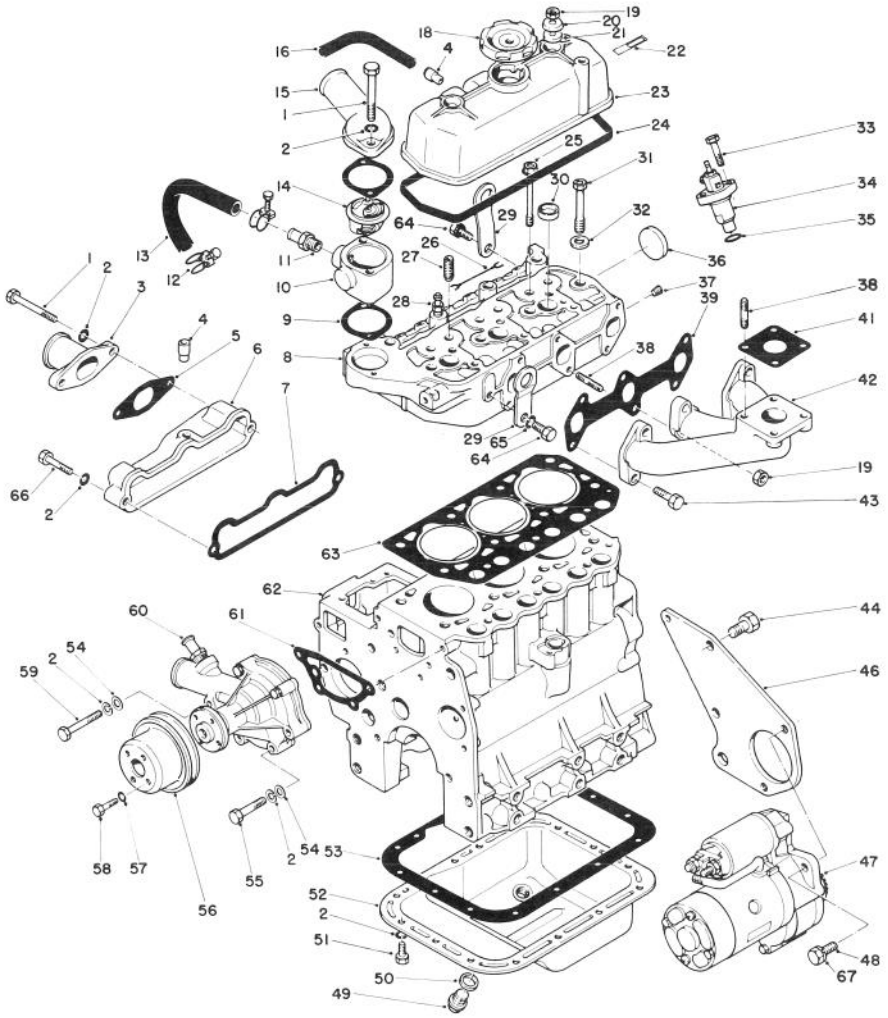


T-0431

ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
1	42-9310	Screw – Cp, Hex. Hd.	4
2	42-9850	Washer – Lock	24
3	42-9150	Pipe Inlet	1
4	42-7510	Pipe	2
5	42-9160	Gasket – Inlet Pipe	1
6	42-9120	Intake Manifold Assembly	1
7	42-9140	Gasket – Intake Manifold	1
8	72-4290	Head Assembl – Cylinder	1
9	42-7550	Gasket	2
10	43-1790	Fitting – Thermostat	1
11	42-7740	Nipple – Hose	1
12	43-3140	Clamp – Hose	2
13	43-3130	Hose – Water (Incl. Ref. #12)	1
14	43-1780	Thermostat	1
15	42-7540	Fitting – Water Outlet	1
16	42-7430	Pipe – Air Breather	1
18	42-7420	Cap – Oil Filter	1
19	42-9580	Nut (8)	3
20	42-9800	Washer	2
21	42-7490	Seal – Oil	2
22	42-7530	Label – Engine No.	1
23	42-7500	Cover Assembly – Rocker	1
24	42-7520	Gasket – Rocker Cover	1
25	42-9330	Bolt – Cylinder Head (10 x 90)	3

Ref. No.	Part No.	Description	No. Used
26	42-9180	Wire – Glow Plug Lead	2
27	42-7460	Guide – Valve	6
28	42-7480	Glow Plug	3
29	42-7440	Hanger – Engine	2
30	42-7080	Cap – Sealing (25)	3
31	42-9320	Bolt – Cylinder Head (12 x 98)	8
32	42-9790	Washer – Head Bolt	8
33	42-9390	Bolt (8 x 32)	6
34	44-8070	Nozzle & Holder Assembly	3
35	42-8120	Gasket – Nozzle Holder	3
36	42-7090	Cap – Sealing (45)	1
37	42-7410	Plug – Taper 1/8	1
38	42-9570	Stud (8 x 25)	5
39	42-9170	Gasket – Exhaust Manifold	1
41	42-9110	Gasket	1
42	43-1870	Manifold – Exhaust	1
43	42-9520	Screw – Cap (8 x 30)	5
44	42-9240	Screw – Cap (12 x 28)	3
46	43-1770	Plate – Rear	1
47	46-7610	Starter Assembly	1
48	43-0090	Screw – Cap (10 x 25)	2
49	42-9260	Plug – Oil Drain	1
50	42-7290	Gasket – Oil Drain Plug (18)	1
51	42-9230	Screw – Cap (8 x 16)	15



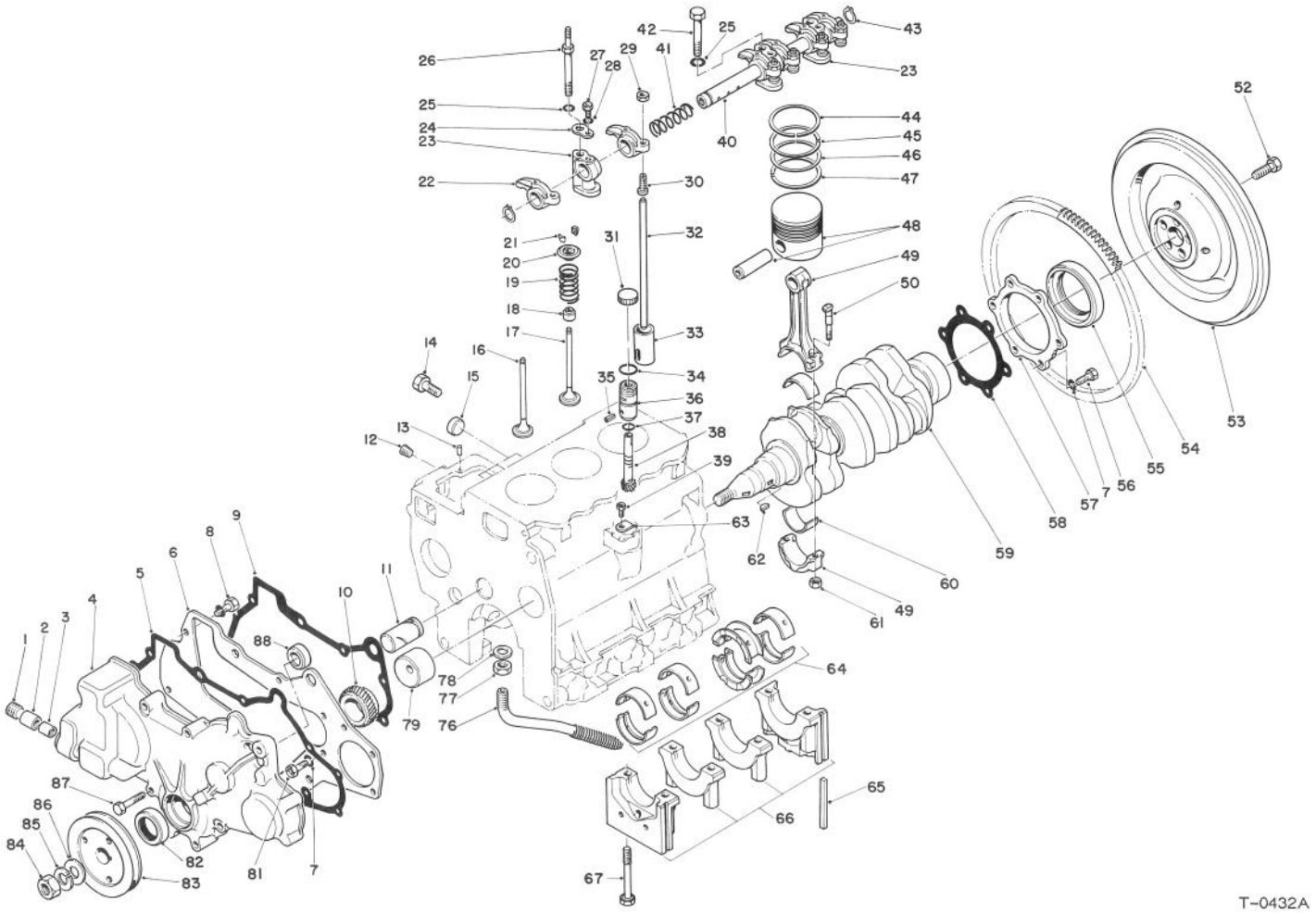
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ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
52	42-7280	Oil Pan Assembly (Inc. Ref. #49 & 50)	1
53	42-7300	Gasket - Oil Pan	1
54	42-9660	Washer - Plain (8)	4
55	42-9500	Screw - Cap (8 x 45)	3
56	42-9070	Pulley - Water Pump	1
57	43-5930	Washer - Lock	4
58	42-9490	Screw - Cap (6 x 12)	4
59	42-9510	Screw - Cap (8 x 60)	1

Ref. No.	Part No.	Description	No. Used
60	42-9080	Water Pump Assembly	1
61	42-9090	Gasket - Water Pump	1
62	48-2020	Cylinder Block Sub Assy.	1
63	42-7470	Gasket - Cylinder Head	1
64	42-9300	Screw -Cap (10 x 20)	2
65	42-9600	Washer - Lock	2
66	42-9530	Screw - Cap (8 x 40)	1
67	42-9600	Washer - Lock	2
*	42-9200	Complete Gasket Set	1

*Not Illustrated

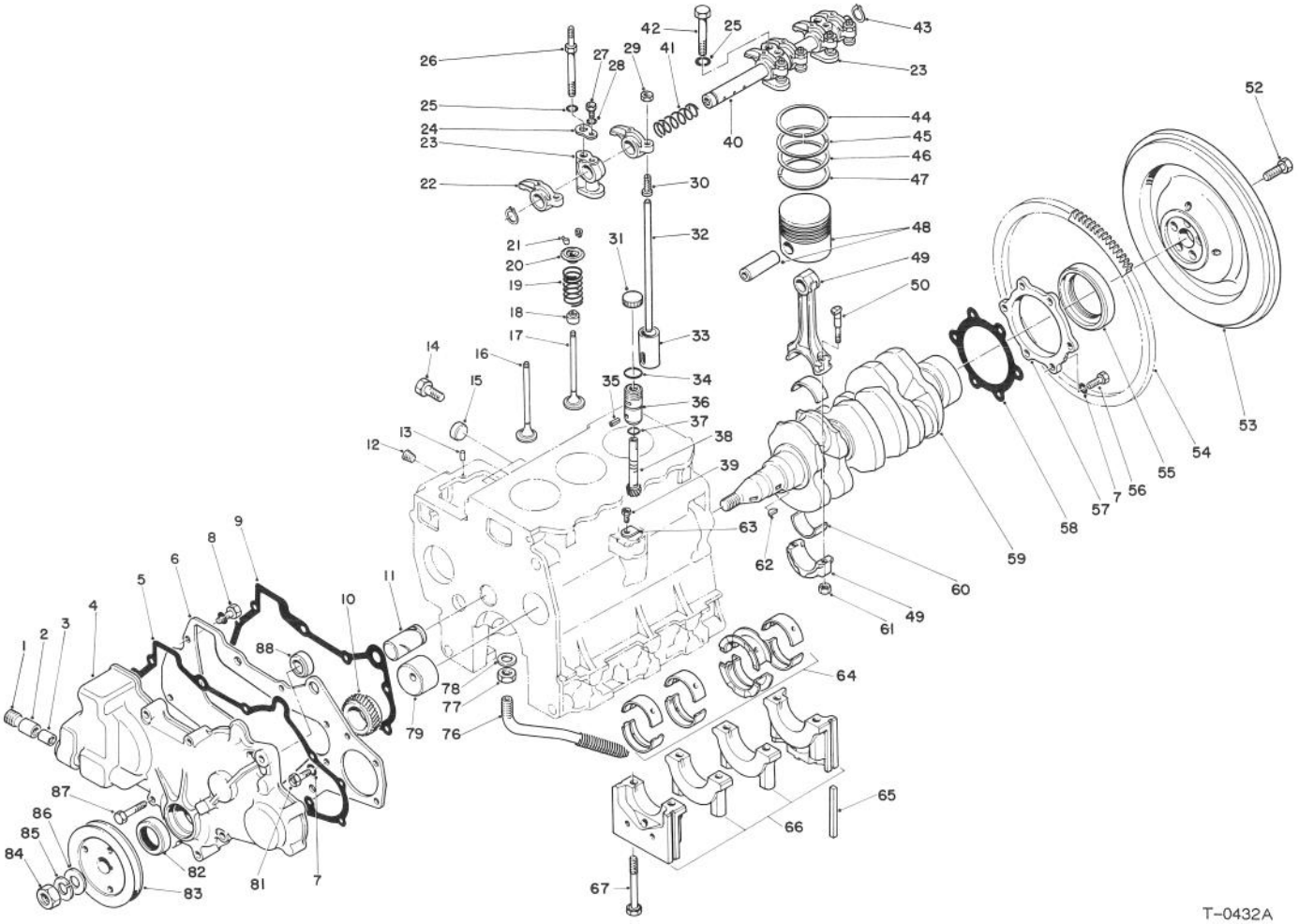


ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
1	42-7400	Plug - Taper	1
2	42-7320	Bearing - Needle	1
3	42-7310	Bearing - Needle	1
4	42-7330	Case - Gear	1
5	42-7340	Gasket - Gear Case	1
6	62-3740	Plate - Front	1
7	42-9850	Washer - Lock	11
8	62-3730	Screw - Cap, w/Washer	2
9	42-7150	Gasket - Front Plate	1
10	42-7700	Gear - Crankshaft	1
11	42-7110	Shaft - Idler	1
12	42-7210	Plug - Taper	3
13	42-7030	Pin - Dowel	2
14	42-9250	Screw - Cap, Hex. Hd.	4
15	42-7080	Cap - Sealing	2
16	42-7900	Valve - Intake	3
17	42-7910	Valve - Exhaust	3
18	42-7870	Seal - Valve Stem	6
19	42-7880	Spring - Valve	6
20	42-7850	Retainer - Valve Spring	6
21	42-7860	Lock - Spring Retainer	12
22	42-7940	Arm - Rocker	6
23	42-7970	Stay - Rocker	3
24	42-7950	Washer - Seat	2
25	42-9600	Washer - Spring	3
26	42-9360	Bolt	2
27	42-9350	Screw - Cap, Hex. Hd.	2
28	43-5930	Washer - Lock	2
29	42-9620	Nut - Jam	6

Ref. No.	Part No.	Description	No. Used
30	42-7980	Screw - Adjusting	6
31	49-7990	Cap - Shipping	1
32	42-7920	Rod - Push	6
33	42-7890	Tappet	6
34	42-9010	O-Ring	1
35	42-8970	Pin - Spring	1
36	42-8980	Sleeve - Gear	1
37	42-8990	O-Ring	1
†38		Gear - Driven	1
39	42-9440	Screw - Cap, Hex. Hd.	1
40	42-7960	Shaft Assembly - Rocker	1
41	42-7930	Spring - Rocker Shaft L.H.	1
42	42-9370	Screw - Cap, Hex. Hd.	1
43	42-7990	Ring - Snap	2
44	72-4200	Ring - Set - Piston Std.	3
45	72-4210	Ring Set - Piston 0.25 (.010 in.) 0.5.	3
46	72-4220	Ring Set - Piston 0.50 (.020 in.) 0.5.	3
47	72-4230	Ring Set - Piston 075 (.030 in.) 0.5.	3
48	72-4240	Piston & Piston Pin Std.	3
*	72-4250	Piston & Piston Pin 0.25 (.010 in.) 0.5.	3
*	72-4260	Piston & Piston Pin 0.50 (.020 in.) 0.5.	3
*	72-4270	Piston & Piston Pin 0.75 (.030 in.) 0.5.	3

*Not Illustrated
†Not Serviced Separately

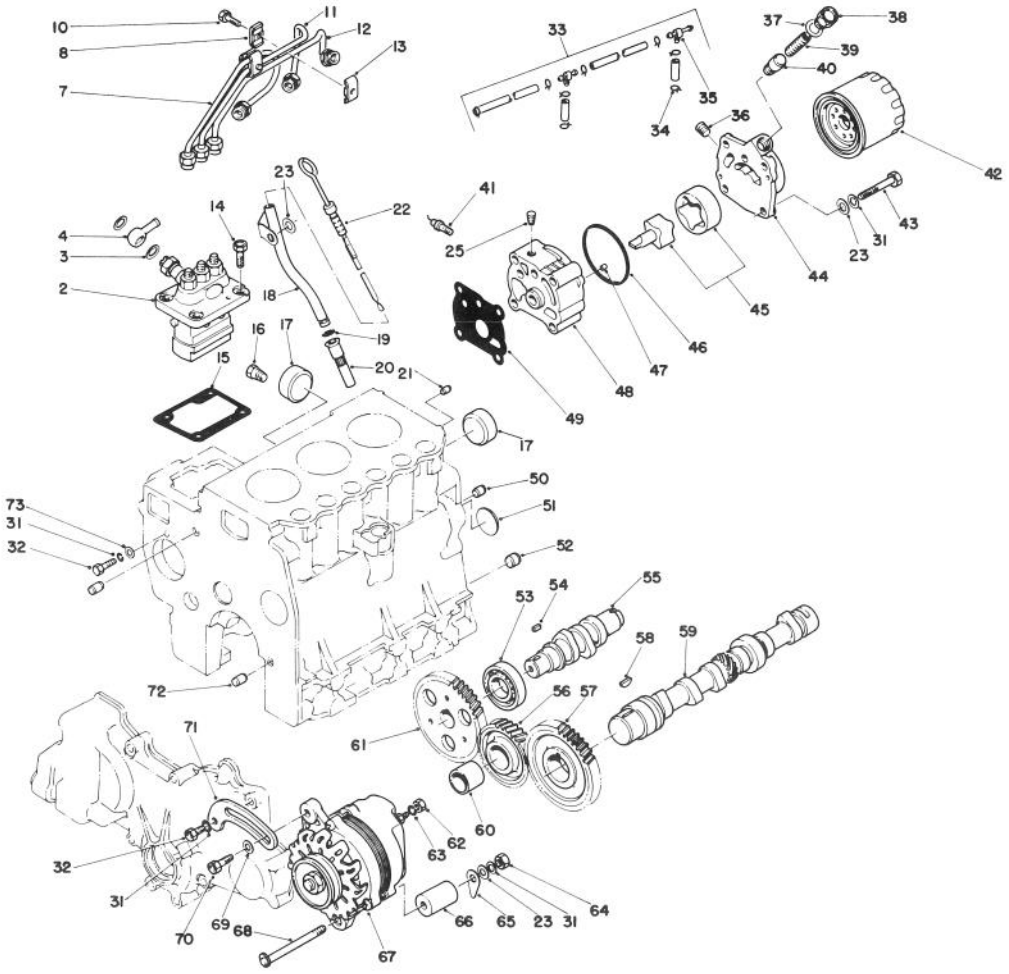


ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
49	42-7650	Connecting Rod Assembly	3
50	42-9470	Bolt - Connecting Rod	6
52	54-8670	Bolt - Flywheel	5
53	43-1800	Flywheel (Incl. Ref. #54)	1
54	43-1810	Gear - Ring	1
55	42-7060	Seal - Oil	1
56	42-9220	Screw - Cap, Hex. Hd.	6
57	42-7120	Case - Oil Seal	1
58	42-7130	Gasket - Oil Seal	1
59	42-7710	Crankshaft	1
60	42-7660	Bearing Set Connecting Rod Std.	3
*	42-7670	Bearing Set Connecting Rod 0.25 (.010 in.) U.S.	3
*	42-7680	Bearing Set Connecting Rod 0.50 (.020 in.) U.S.	3
*	42-7690	Bearing Set Connecting Rod 0.75 (.030 in.) U.S.	3
61	42-9590	Nut - Connecting Rod	6
62	42-7730	Key - Woodruff	2
63	42-9020	Plate - Locking	1

Ref. No.	Part No.	Description	No. Used
64	42-7230	Bearing Set Crankshaft Std.	1
*	42-7240	Bearing Set - Crankshaft 0.25 (.010 in.) U.S.	1
*	42-7250	Bearing Set - Crankshaft 0.50 (.020 in.) U.S.	1
*	42-7260	Bearing Set - Crankshaft 0.75 (.030 in.) U.S.	1
65	42-7040	Seal - Side	4
†66		Bearing Cap Assembly	1
67	42-9210	Bolt - Bearing Cap	8
76	48-2010	Screen - Assembly Oil	1
77	48-1990	Nut - Jam	1
78	48-1980	Gasket	1
79	42-7100	Bushing - Camshaft	1
81	42-9230	Screw - Cap, Hex. Hd.	3
82	42-7390	Seal - Oil	1
83	42-7720	Pulley - Crankshaft	1
84	43-6470	Nut	1
85	42-9860	Washer -Spring	1
86	42-9810	Washer - Flat	1
87	42-9500	Screw - Cap, Hex. Hd.	8
88	82-2590	Plug - Thrust	1
*	42-8960	Driven Unit - Speedometer (Incl. Ref. #34-38)	1

*Not Illustrated
†Not Available



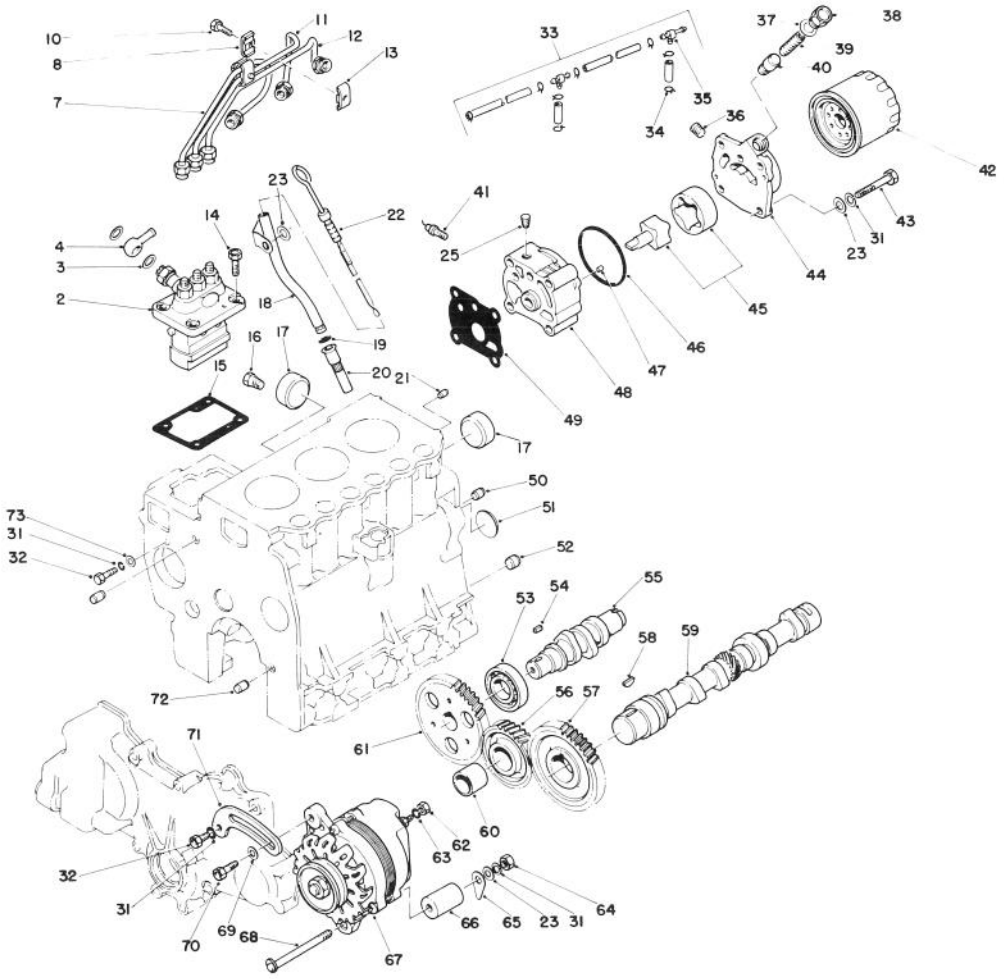
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ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
2	42-8000	Pump Assy. - Fuel Injection	1
3	42-9830	Washer - Seal	2
4	42-8100	Collar - Union	1
7	42-8130	Pipe Assy. - Fuel Injection (No. 1)	1
8	42-8160	Clamp	2
10	43-2600	Capscrew	2
11	42-8140	Pipe Assy. - Fuel Injection (No. 2)	1
12	42-8150	Pipe Assy. - Fuel Injection (No.3)	1
13	42-8170	Clamp	2
14	43-0110	Screw - Cap, Hex. Hd.	4
15	42-8010	Shim - 0.2 (.008 in.)	A/R
*	42-8020	Shim - 0.3 (.012 in.)	A/R
*	42-8030	Shim - 0.4 (.016 in.)	A/R
*	42-8040	Shim - 0.5 (.020 in.)	A/R
*	42-8050	Shim - 0.6 (.024 in.)	A/R
*	42-8060	Shim - 0.7 (.028 in.)	A/R
*	42-8070	Shim - 0.8 (.032 in.)	A/R
*	42-8080	Shim - 0.9 (.036 in.)	A/R
*	42-8090	Shim - 1.0 (.039 in.)	A/R
16	281-1	Plug - Taper	1
17	42-7090	Cap - Sealing	2
18	42-7050	Guide - Oil Level Gauge	1
19	43-2710	O-Ring	1

Ref. No.	Part No.	Description	No. Used
20	43-2900	Retainer - Oil Level Guide	1
21	42-71 60	Pin - Dowel	1
22	42-7270	Gauge Assembly - Oil Level	1
23	42-9660	Washer - Flat	6
25	42-7410	Plug - Taper	1
31	42-9850	Washer - Lock	7
32	42-9230	Screw - Cap, Hex. Hd.	2
33	42-8180	Fuel Return Pipe Assembly	1
34	2412-79	Clamp - Hose	8
35	42-8190	Joint	2
36	42-7210	Plug - Taper	1
37	42-8880	Gasket	1
38	42-8870	Plug	1
39	42-8930	Spring - Relief	1
40	42-8860	Plunger - Relief	1
41	42-9060	Oil Pressure Switch Assy.	1
42	42-9030	Filter Assembly - Oil	1
43	42-9480	Screw - Cap, Hex. Hd.	4
44	42-8920	Cover - Oil Pump	1
45	42-8910	Rotor Assembly - Oil Pump	1
46	42-8940	O-Ring	1
47	42-7030	Pin - Dowel	2
48	42-8900	Body - Oil Pump	1
49	42-8950	Gasket - Oil Pump Body	1
50	42-7180	Bushing - Knock	2
51	42-7170	Plug - Expansion	1

*Not Illustrated



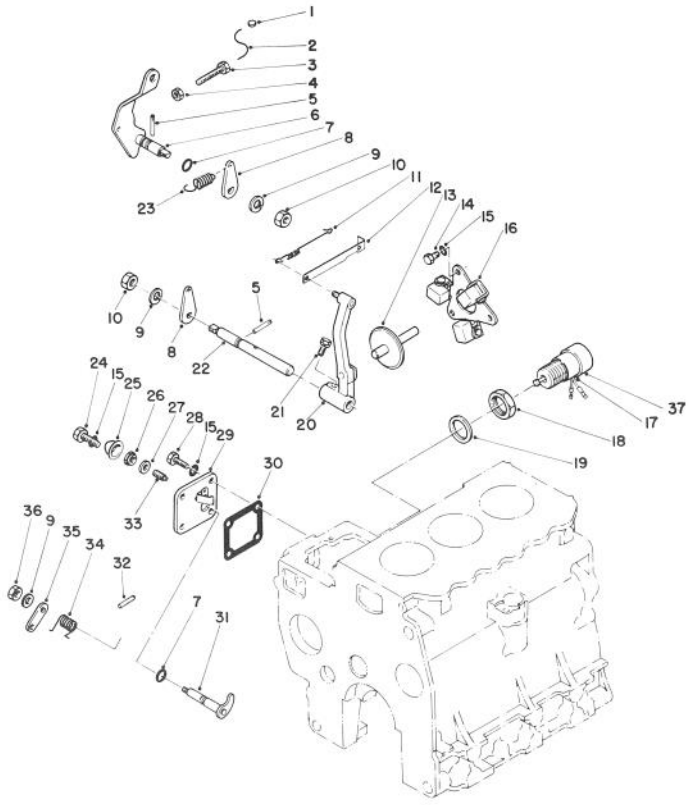
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ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
52	42-7200	Bushing - Knock	1
53	42-7820	Bearing - Ball	1
54	42-7840	Key - Sunk	1
55	42-7810	Shaft - Injection Pump Cam	1
56	42-7790	Idler Gear Assembly (Incl. Ref. #60)	1
57	42-7780	Gear - Camshaft	1
58	42-7730	Key - Woodruff	1
59	72-4280	Camshaft	1
60		Bushing - Idler Gear	1
61	42-7830	Gear - Injection Pump Cam	1
62	43-5970	Nut	1
63	43-5920	Washer - Lock	1

Ref. No.	Part No.	Description	No. Used
64	42-9580	Nut	1
65	43-0370	Shim	AIR
66	43-0380	Spacer	1
67	43-0390	Alternator (Model AH2035M4)	1
68	43-1900	Screw - Cap, Hex. Hd.	1
69	54-8660	Washer	1
70	54-8650	Screw - Cap, Flange Hd.	1
71	43-0400	Brace - Alternator	1
72	42-7190	Bushing - Knock	2
73	42-9820	Washer	1
*	42-8850	Oil Pump Assembly (Incl. Ref. 36-40 & 44-48)	1

*Not Illustrated

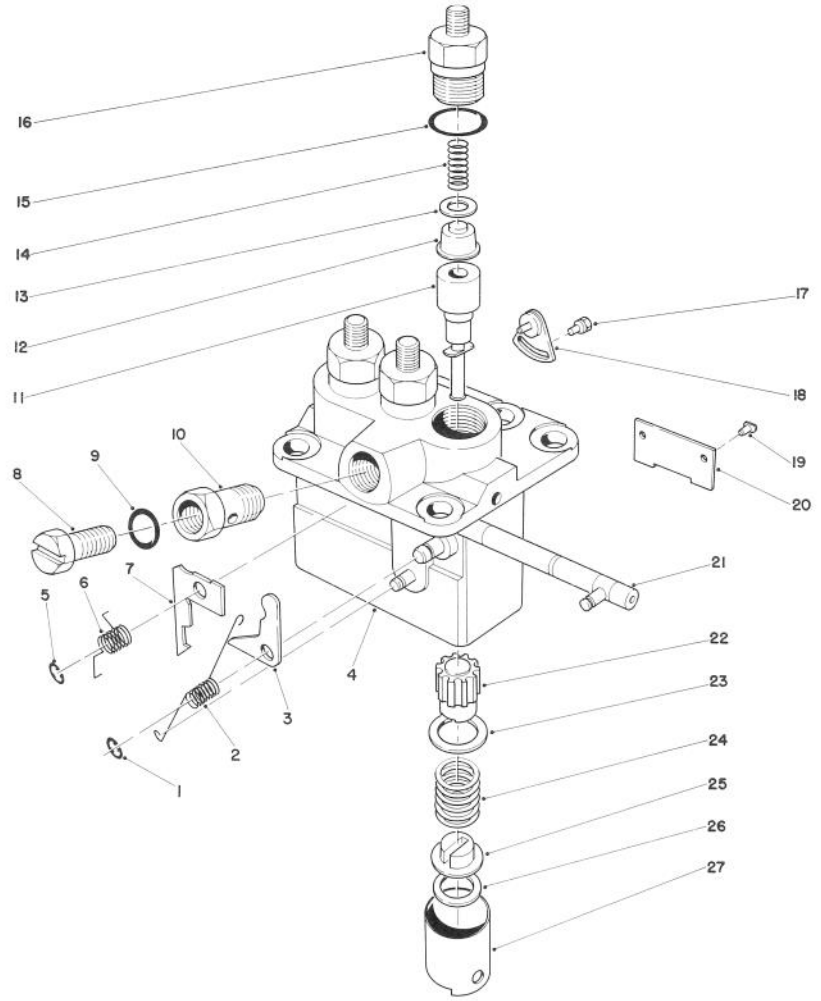


T-0434

ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
1	42-8690	Metal - Sealing	1
2	42-8700	Wire	1
3	42-9420	Bolt - High Speed Set	1
4	43-2830	Nut	1
5	42-8810	Pin - Grooved	2
6	42-8780	Speed Control Lever Assy.	1
7	42-8830	O-Ring	2
8	42-8770	Lever - Governor Spring	2
9	42-9850	Washer - Lock	2
10	42-9580	Nut - Jam	2
11	42-8740	Spring - Tie Rod	1
12	42-8750	Tie Rod	1
13	42-8720	Sliding Shaft Assembly	1
14	42-9430	Screw - Cap, Hex. Hd.	3
15	43-5930	Washer - Lock	7
16	42-8710	Weight Assembly - Governor	1
17	43-2730	Solenoid - Tubular	1
18	43-2750	Nut	1
19	43-2740	Gasket	1

Ref. No.	Part No.	Description	No. Used
20	42-8730	Governor Lever Assembly	1
21	42-9450	Bolt/Washer - Assembled	1
22	42-8760	Governor Shaft	1
23	42-8820	Governor Spring	1
24	43-2800	Screw - Cap, Hex. Hd.	1
25	43-2820	Sealing Cap	1
26	43-5960	Nut - Special	1
27	43-3120	Washer - Seal	1
28	42-9400	Screw - Cap, Hex. Hd.	3
29	42-8790	Cover Assembly (Incl. Ref. #25, 27 & 33)	1
30	42-8800	Gasket Cover	1
31	44-8090	Lever Assembly Stop	1
32	42-8810	Pin - Grooved	1
33	43-3160	Screw - Adjusting	1
34	44-8100	Spring Return	1
35	43-2770	Lever - Stop	1
36	42-9640	Nut - Jam	1
37	62-6940	Cap	1

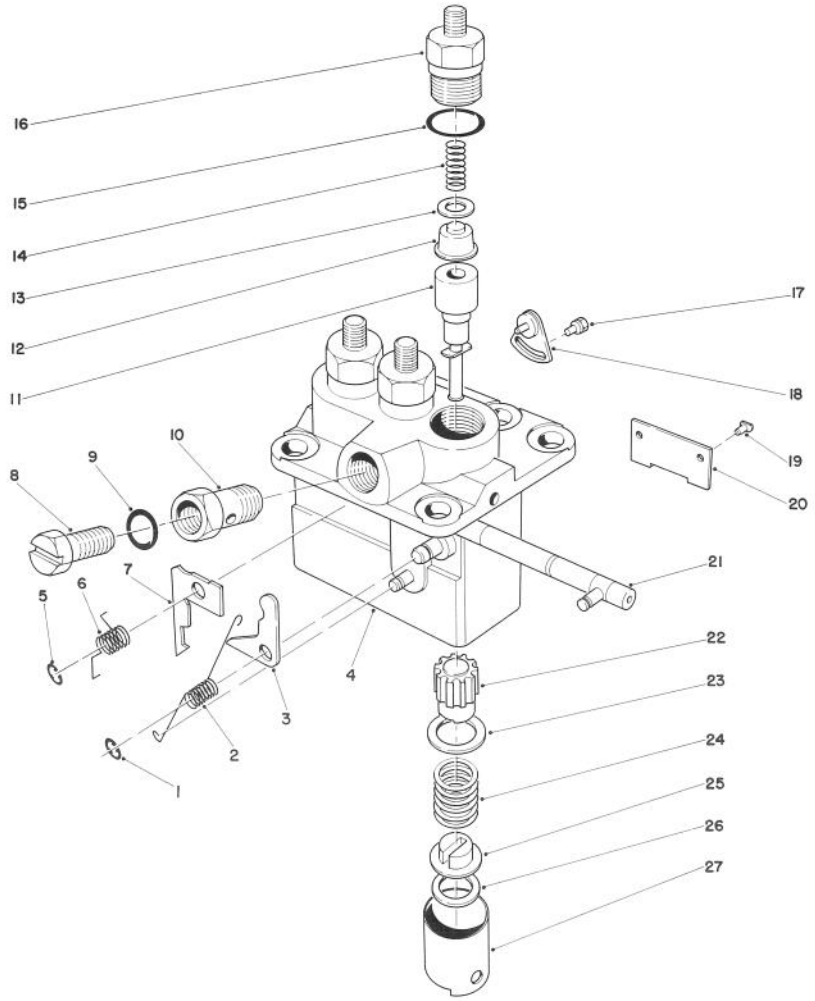


T-0435

FUEL INJECTION PUMP ASSEMBLY NO. 42-8000

Ref. No.	Part No.	Description	No. Used
1	43-3100	E-Ring	1
2	43-3110	Spring - Ungleich Set	1
3	43-2910	Plate - Ungleich Set 16.9 (.665 in.)	A/R
*	43-2920	Plate - Ungleich Set 16.8 (.661 in.)	A/R
*	43-2930	Plate - Ungleich Set 16.7 (.657 in.)	A/R
*	43-2940	Plate - Ungleich Set 16.6 (.654 in.)	A/R
*	43-2950	Plate - Ungleich Set 16.5 (.650 in.)	A/R
4		Pump Housing Sub Assy.	1
5	54-8780	E-Ring	1
6	42-8460	Spring Return	1
7	43-3000	Plate - Smoke Set 2.2 (.087 in.)	A/R
*	54-8700	Plate - Smoke Set 2.3 (.091 in.)	A/R
*	43-3010	Plate - Smoke Set 2.4 (.095 in.)	A/R
*	54-8710	Plate - Smoke Set 2.5 (.098 in.)	A/R
*	43-3020	Plate - Smoke Set 2.6 (.102 in.)	A/R
*7	56-0960	Plate - Smoke Set 2.7 (.106 in.)	A/R
*	43-3030	Plate - Smoke Set 2.8 (.110 in.)	A/R
*	54-8730	Plate - Smoke Set 2.9 (.114 in.)	A/R
*	43-3040	Plate - Smoke Set 3.0 (.118 in.)	A/R
*	54-8740	Plate - Smoke Set 3.1 (.122 in.)	A/R
*	43-3050	Plate - Smoke Set 3.2 (.126 in.)	A/R
*	54-8750	Plate - Smoke Set 3.3 (.130 in.)	A/R
*	43-3060	Plate - Smoke Set 3.4 (.134 in.)	A/R
*	54-8760	Plate - Smoke Set 3.5 (.138 in.)	A/R
*	43-3070	Plate - Smoke Set 3.6 (.142 in.)	A/R
*	54-8770	Plate - Smoke Set 3.7 (.146 in.)	A/R
*	43-3080	Plate - Smoke Set 3.8 (.150 in.)	A/R
*	43-3090	Plate - Smoke Set 4.0 (.157 in.)	A/R

*Not Illustrated



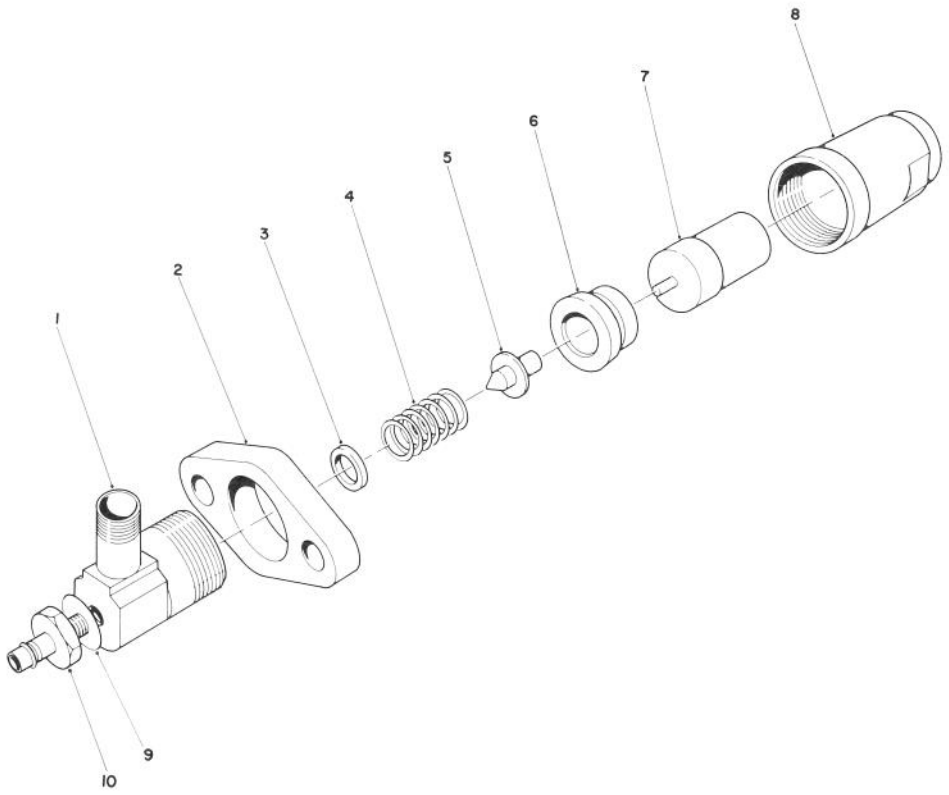
T-0435

FUEL INJECTION PUMP ASSEMBLY NO. 42–8000 (Cont.)

Ref. No.	Part No.	Description	No. Used
8	42–8370	Screw – Air Breather	1
9	42–9770	Washer	1
10	42–8380	Screw – Hollow	1
11	42–8260	Element Sub Assembly	3
12	42–8250	Delivery Valve Sub Assy.	3
13	42–8240	Gasket – Delivery Valve	3
14	42–8230	Spring – Delivery Valve	3
15	42–8330	O-Ring	3
16	42–8220	Holder – Delivery Valve	3
17	43–3150	Bolt/Washer Assembled	2
18	42–8360	Plate Assembly – Adjusting	2
19	42–8340	Pin – Tappet Guide	3
20	42–8350	Plate	1
21	42–8310	Rack Assembly – Control	1
22	42–8270	Sleeve – Plunger Control	3
23	42–8280	Seat – Spring, Upper	3
24	42–8290	Spring – Pump Plunger	3
25	42–8320	Seat – Spring, Lower	3

Ref. No.	Part No.	Description	No. Used
26	42–8390	Shim – Plate 0.6 (.0241 in.)	A/R
*	42–8400	Shim – Plate 0.2 (.008 in.)	A/R
*	42–8410	Shim – Plate 0.3 (.0121 in.)	A/R
*	42–8420	Shim – Plate 0.4 (.016 in.)	A/R
*	42–8430	Shim – Plate 0.5 (.020 in.)	A/R
*	42–8440	Shim – Plate 0.25 (.010 in.)	A/R
*	42–8450	Shim – Plate 0.35 (.014 in.)	A/R
*	43–6240	Shim – Plate 0.45 (.018 in.)	A/R
*	54–8680	Shim – Plate 0.55 (.022 in.)	A/R
*	54–8690	Shim – Plate 0.65 (.026 in.)	A/R
27	42–8300	Tappet Sub Assembly	3

*Not Illustrated



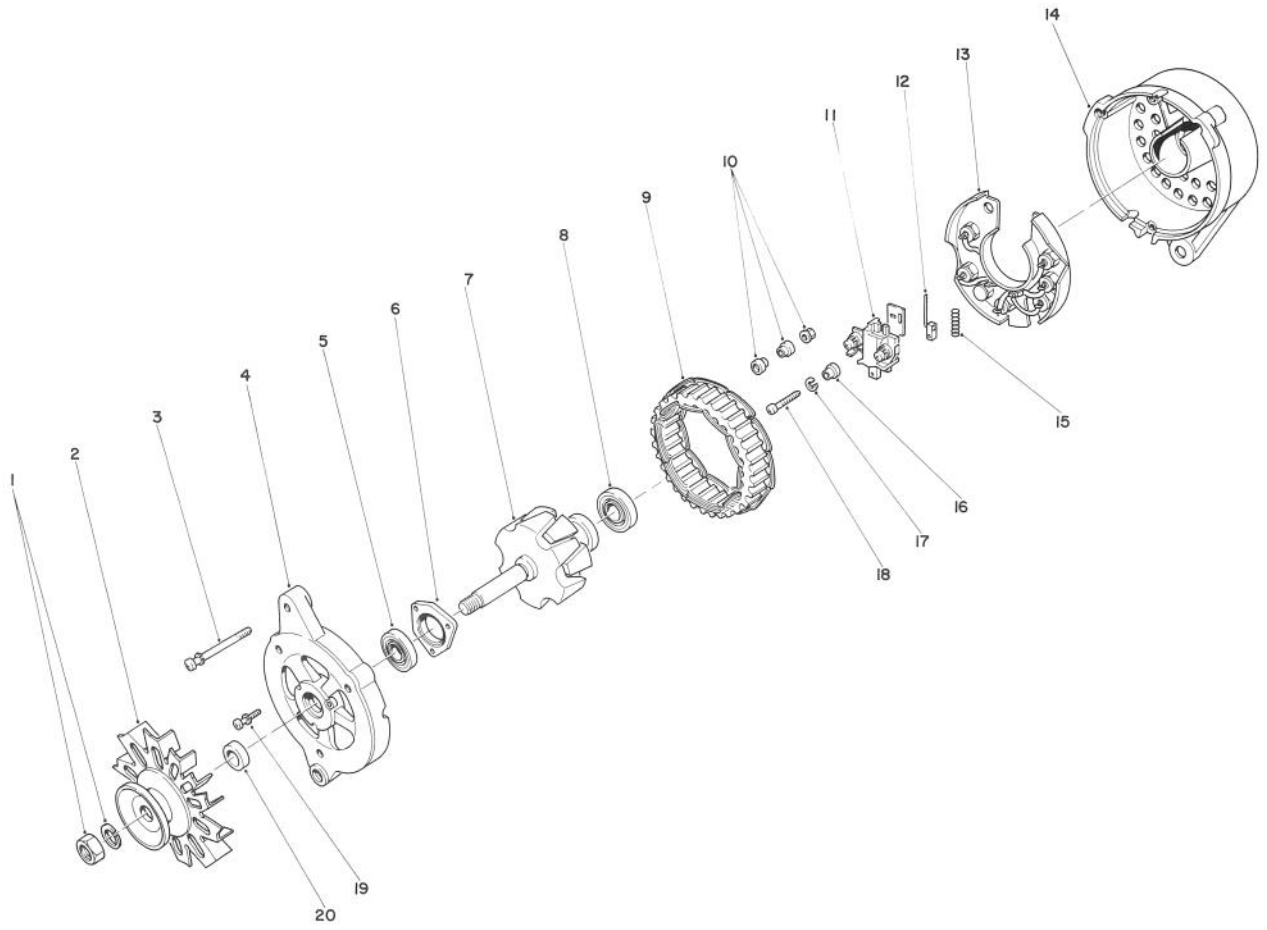
T-0436

NOZZLE & HOLDER ASSEMBLY NO. 44-8070

Ref. No.	Part No.	Description	No. Used
1	44-8080	Body	3
2	42-8670	Flange	3
3	42-9680	Washer 1.3 (.051 in.)	A/R
*	42-9690	Washer 1.35 (.053 in.)	A/R
*	42-9700	Washer 1.4 (.055 in.)	A/R
*	42-9710	Washer 0.9 (.035 in.)	A/R
*	42-9720	Washer 1.0 (.039 in.)	A/R

Ref. No.	Part No.	Description	No. Used
*3	42-9730	Washer 1.1 (.043 in.)	A/R
*	42-9740	Washer 1.2 (.047 in.)	A/R
*	42-9750	Washer 0.1 (.004 in.)	A/R
4	42-8630	Spring - Pressure	3
5	42-8620	Pin - Pressure	3
6	42-8660	Piece - Distance	3
7	42-8680	Nozzle Assembly	3
8	42-8650	Nut - Retaining	3
9	42-9670	Washer	3
10	42-8640	Nipple	3

*Not Illustrated

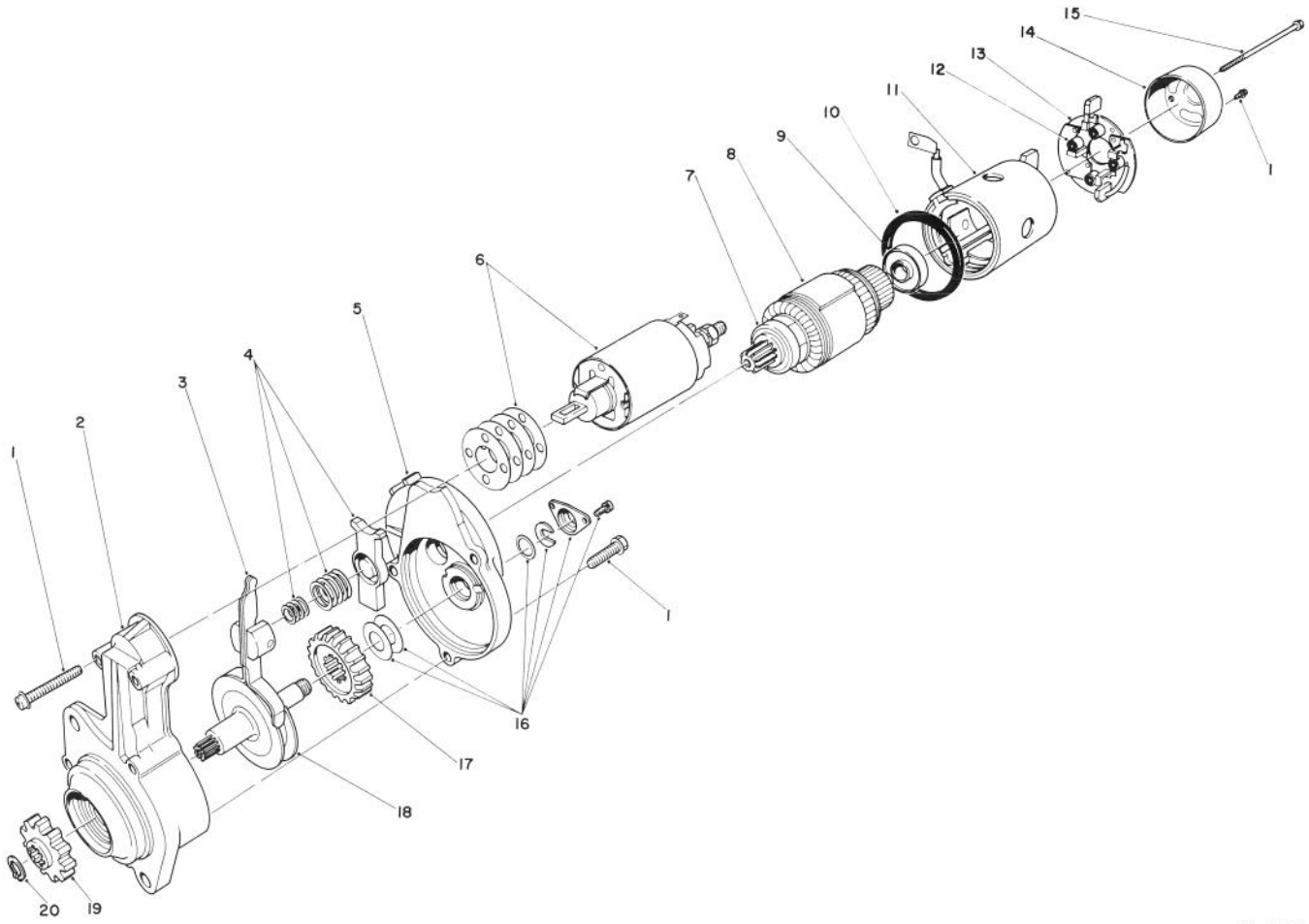


T-0437

ALTERNATOR ASSEMBLY NO. 43-0390

Ref. No.	Part No.	Description	No. Used
1	43-1920	Nut Set	1
2	43-0420	Pulley Assembly (Inc. Ref. #20)	1
3	43-0120	Screw - Set	1
4	43-0430	Bracket Assembly Front (Incl. Ref. #5-6 & 19)	1
5	43-0440	Bearing - Front	1
6		Plate - Ball Bearing Retainer	1
7	43-0450	Rotor Assembly (Inc. Ref. #8)	1
8	43-0460	Bearing - Rear	1
9	43-0470	Stator	1
10	43-0080	Nut - Set	1

Ref. No.	Part No.	Description	No. Used
11	43-0490	Holder Assembly Brush (Incl. Ref. #12 & 15)	1
12	43-0500	Brush	2
13	43-0520	Rectifier Assembly	1
14	43-0480	Rear Bracket Assembly (Incl. Ref. #10-13 & 15-18)	1
15	43-0510	Spring - Brush	1
16	43-2720	Mold	1
17	43-5920	Washer - Lock	1
18	43-1890	Screw	1
19	43-0130	Screw - Set	1
20		Collar - Shaft	1



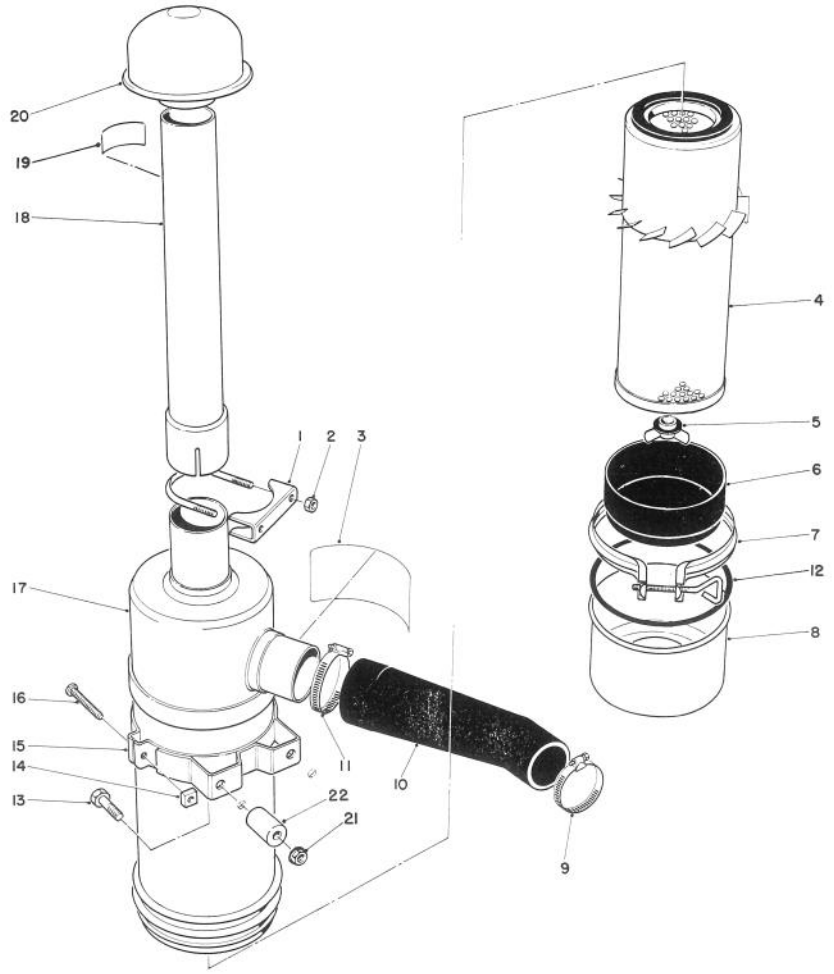
T-0438

STARTER ASSEMBLY NO. 46-7610

Ref. No.	Part No.	Description	No. Used
1	46-7620	Screw - Set	1
2	46-7630	Bracket Assembly - Front	1
3	46-7540	Lever Assembly	1
4	43-0190	Spring Set	1
5	46-7650	Bracket Assembly - Center	1
6	46-7660	Switch Assembly	1
7	46-7680	Bearing - Front	1
8	46-7670	Armature Set (Incl. Ref. #7 & 9)	1
9	46-7690	Bearing - Rear	1
10	46-8050	Packing	1
11	46-7780	Yoke Assembly	1
12	46-8030	Spring - Brush	4

Ref. No.	Part No.	Description	No. Used
13	46-7790	Brush Holder Assembly (Incl. Ref. #12)	1
14	46-8040	Bracket - Rear	1
15	46-7700	Bolt Set	1
16	46-7770	Cover Set	1
17	46-7760	Gear	1
18	46-7750	Shaft Assembly Pinion	1
19	46-7720	Pinion Set (Incl. Ref. #20)	1
20	46-7730	Snap Ring	1
*	46-7740	Gear Set (Incl. Ref. #17 & 18)	1
*	46-7710	Shaft Assembly - Clutch (Inc. Ref. #16-20)	1

*Not Illustrated

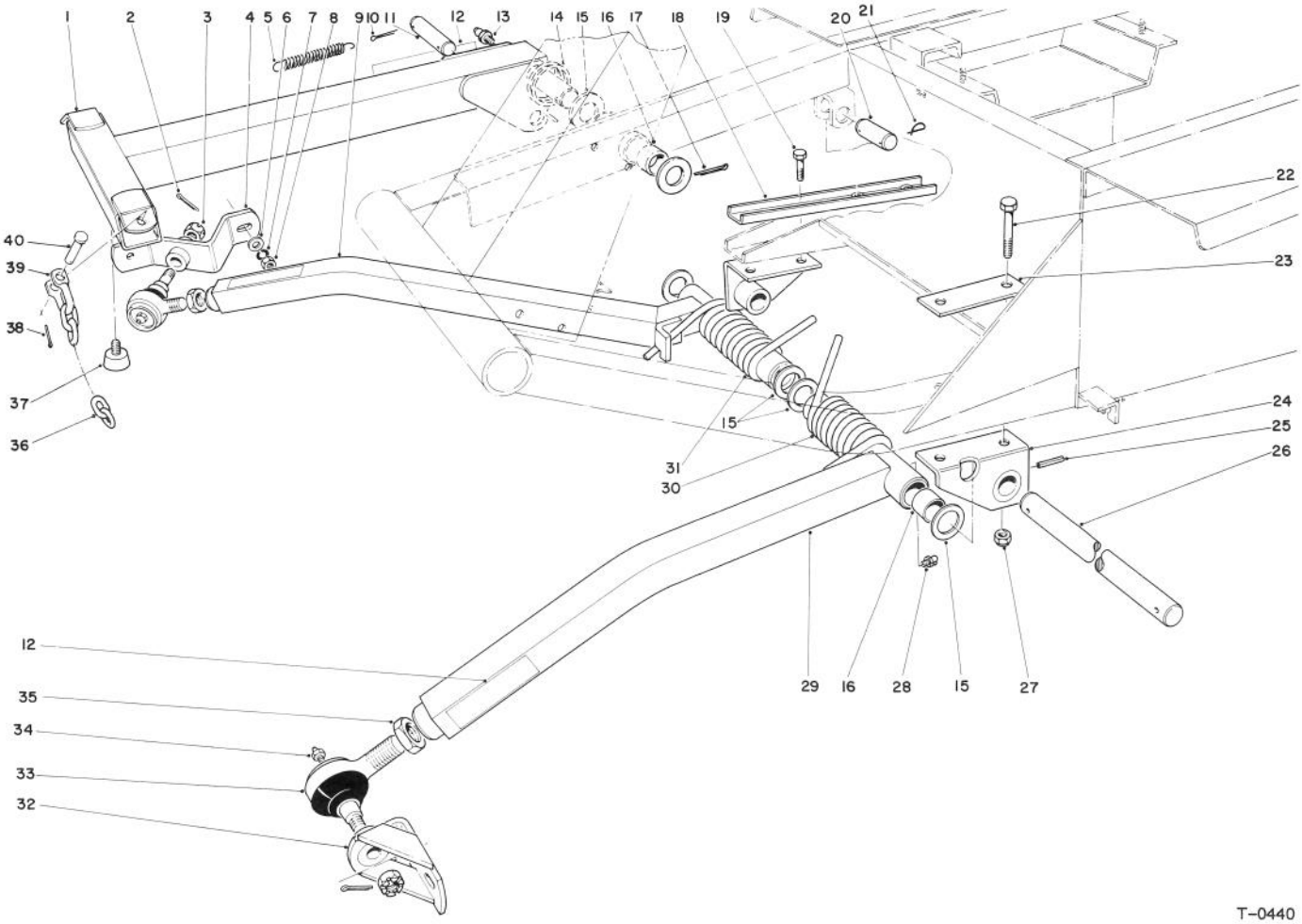


T-1188

AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	20-4840	Muffler Clamp (Incl. Ref. #2)	1
2	3217-6	Nut	2
3	27-7160	Decal - Instructions	1
4	27-7110	Element Assembly	1
5	27-7120	Nut & Gasket Assembly	1
6	27-7140	Skirt - Baffle	1
7	27-7130	Clamp Assembly	1
8	27-7150	Cap Assembly	1
9	2412-3	Hose - Clamp	1
10	80-0060	Hose - Air Cleaner	1
11	2412-42	Hose Clamp	1
12	80-3330	Gasket	1

Ref. No.	Part No.	Description	No. Used
13	322-10	Screw - Cap, Hex. Hd.	4
14	32107-11	Nut	2
15	27-7170	Band Assy. (Incl. Ref. #14 & 16)	2
16	3258-19	Screw - Mach. Rd. Hd.	2
17	27-7100	Air Cleaner Assembly (Incl. Ref. #3-8)	1
18	43-3810	Tube - Air Cleaner	1
19	67-1700	Decal - Starting Fluid	1
20	27-7180	Cap Assembly - Air Inlet	1
21	32128-20	Nut - Flange	4
22	77-3180	Spacer	4

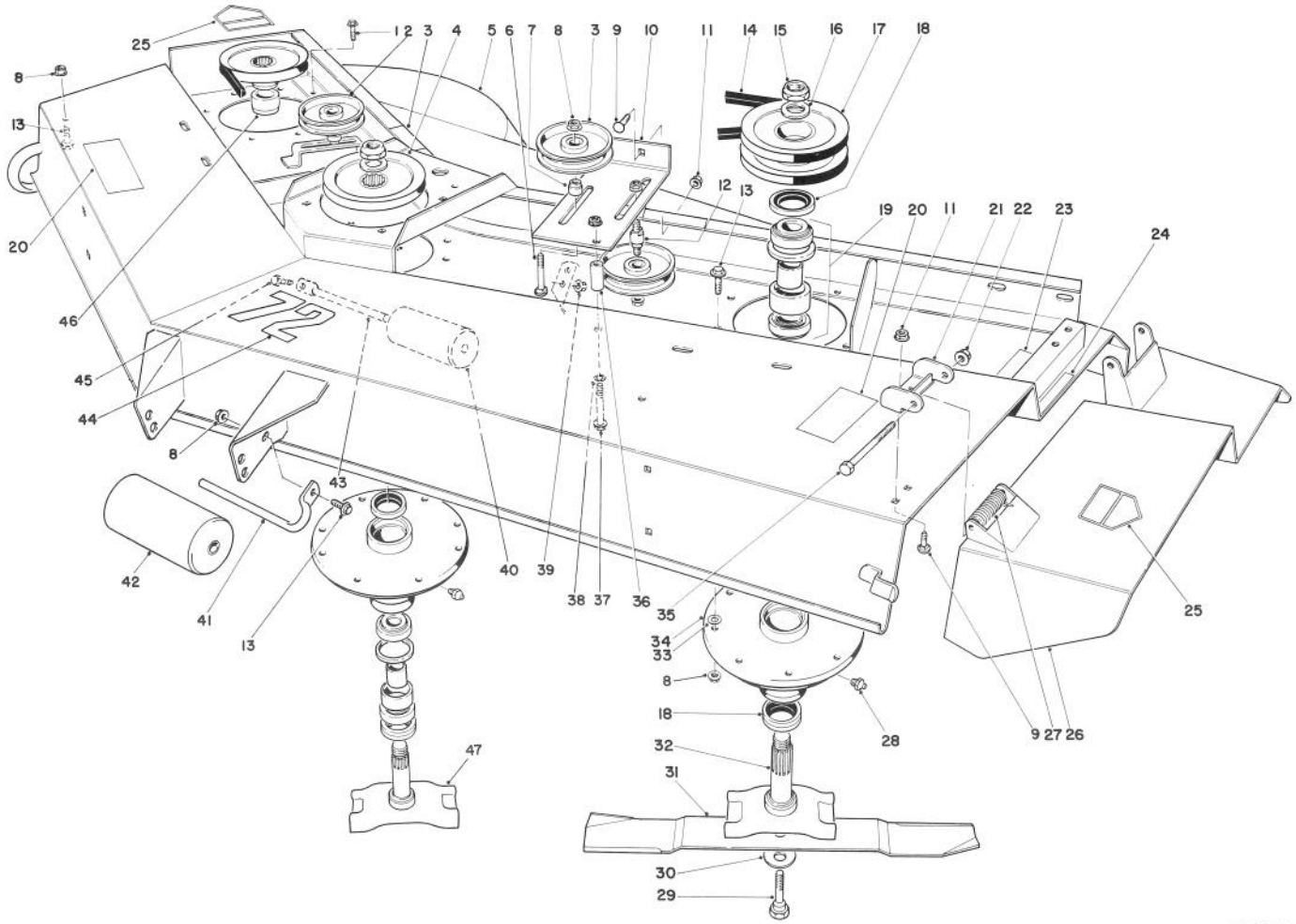


T-0440

PUSH ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66-6370	Lift Arm	1
2	3272-11	Cotter Pin	2
3	32136-2	Nut	2
4	21-3020	Ball Joint Mount R.H.	1
$	21-1830	Spring Tension	1
6	3256-25	Washer - Flat	1
7	3253-6	Washer - Lock	2
8	3217-8	Nut -Full	2
9	66-7150	Push Arm R.H. (Incl. Ref. #16 & 28)	1
10	3272-24	Cotter Pin	1
11	24-9510	Pin	1
12	61-3610	Warning Decal	3
13	302-5	Grease Fitting	1
14	46-8840	Spring - Lift Arm	1
15	5-1754	Washer	6
16	256-126	Bushing	6
17	3272-33	Cotter Pin	1
18	23-1950	Support Reinforcement	1
19	324-4	Screw - Cap, Hex. Hd.	2
20	3-7292	Pin	1

Ref. No.	Part No.	Description	No. Used
21	5-3126	Spring Pin	3
22	324-12	Screw - Cap, Hex. Hd.	2
23	21-3750	Support Plate	1
24	21-2860	Push Arm Bracket	2
25	32121-84	Roll Pin	2
26	21-2990	Shaft - Pivot	1
27	32152-9	Nut	4
28	302-33	Grease Fitting	2
29	21-2960	Push Arm L.H. (Incl. Ref. #16 & 28)	1
30	21-2900	Spring - Torsion L.H.	1
31	21-2890	Spring - Torsion R.H.	1
32	21-3050	Ball Joint Mount L.H.	1
33	21-0160	Ball Joint Assembly	2
34	302-2	Grease Fitting	2
35	21-3000	Nut - Jam	2
36	3-1365	Chain - Lift	3
37	67-9800	Bumper	1
38	3272-10	Cotter Pin	3
39	5-2942	Shackle	3
40	283-10	Pin	3



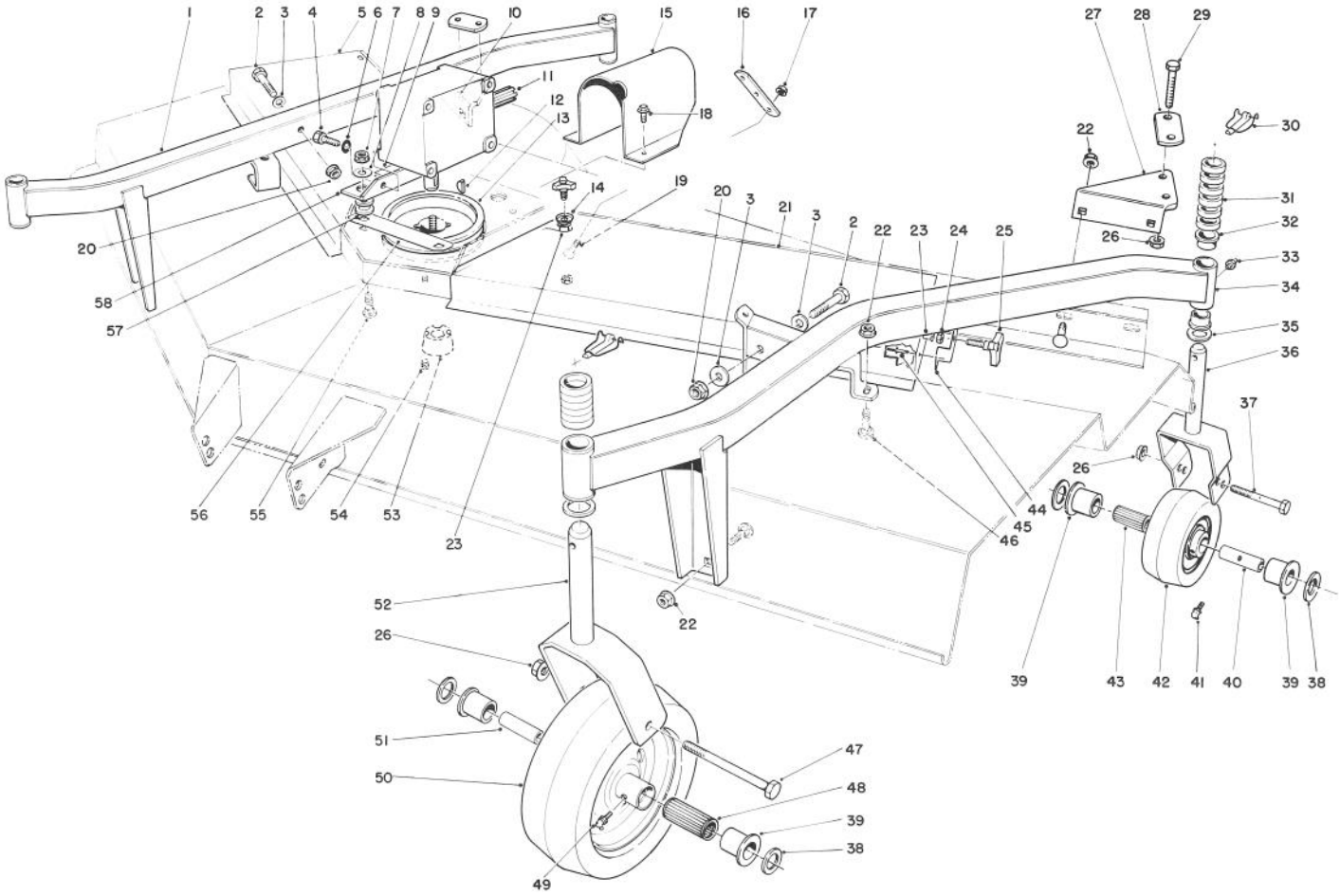
T-0441

CUTTING UNIT MODEL NO. 30722

Ref. No.	Part No.	Description	No. Used
1	3234-11	Screw - Hex. Hd. Flange	4
2	26-1840	Idler Pulley	3
3	67-5360	Decal - Danger	2
4	26-1760	Pulley	2
5	14-0289	Cutting Deck (Incl. Ref. #23 page 48)	1
6	3231-29	Bolt - Carriage	2
7	26-1860	Spacer - Idler Pulley	2
8	32128-21	Nut - Flange	33
9	3231-27	Bolt - Carriage	6
10	26-1870	Idler Mount L.H.	1
11	3290-357	Nut - Flange	6
12	26-1850	Stud - Idler	1
13	3234-1	Screw - Hex. Hd. Flange	24
14	21-0890	V-Belt	3
15	3296-49	Nut	3
16	3-8514	Washer	3
17	26-9100	Pulley L.H.	1
18	253-138	Oil Seal	9
19	49-8320	Bearing & Spacer Assy. (Matched Set)	3
20	66-1340	Decal - Danger	2
21	51-1530	Hinge Bracket	2
22	32128-23	Nut - Lock, Flange	2
23	68-7280	Decal - Blade Bolt Torque	1
24	66-6380	Decal - Deflector Missing	1

Ref. No.	Part No.	Description	No. Used
25	43-8480	Decal - Danger	2
26	51-1470	Deflector	1
27	51-1550	Spring	2
28	302-52	Grease Fitting	3
29	26-1820	Screw - Cap, Hex. Hd.	3
30	26-1990	Washer - Belleville	3
31	29-5530	Blade	3
32	26-1690	Spindle -Outer	2
33	3256-24	Washer	A/R
34	60-9700	Spindle Housing	3
35	325-17	Screw - Cap, Hex. Hd.	2
36	26-1880	Spacer - Idler Mount	1
37	323-12	Screw - Cap, Hex. Hd.	1
38	3253-21	Washer - Lock	1
39	32128-25	Nut - Lock, Flange	2
40	36-1740	Roller - Deck	2
41	68-6840	Shaft - Roller	1
42	68-6710	Roller - Deck	1
43	62-4480	Rod - Roller	2
44	57-0280	Decal - 72"	1
45	322-4	Screw - Cap. Hex Hd.	2
46	26-1790	Spacer R.H. Spindle	1
47	26-1680	Spindle Ctr.	1
*	23-2410	Blade - High Sail (Opt.)	3

*Not Illustrated



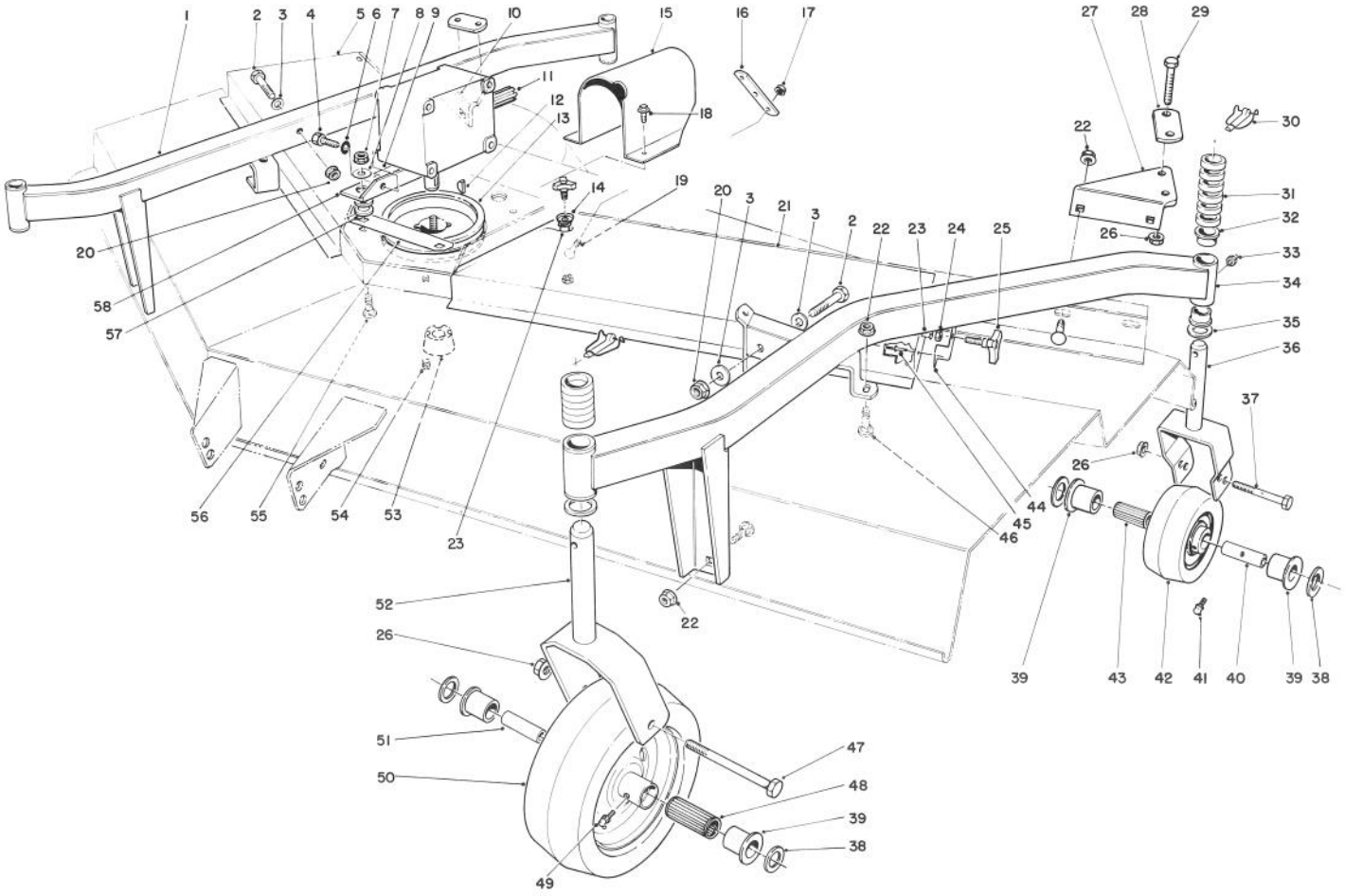
T-0442

CUTTING UNIT MODEL NO. 30722 (Continued)

Ref. No.	Part No.	Description	No. Used
1	26-1490	Caster Arm R.H. (Inc. Ref. #32)	1
2	324-12	Screw - Cap, Hex Hd.	4
3	66-6480	Washer - Flat	4
4	323-4	Screw - Cap, Hex Hd.	4
5	14-0809	Cover - Deck R.H. (Incl. Ref. #24, 25, 44-45)	1
6	3253-21	Washer - Lock	4
7	32128-21	Nut - Flange	4
8	63-8410	Washer	4
9	70-2560	Decal - Lube	1
10	39-3340	Bracket - Clamp	1
11	68-6810	Gear Case Assembly	1
12	3257-5	Key - Woodruff	1
13	26-1400	Pulley - Deck	1
14	66-6310	Washer—Cup	2
15	63-1970	Shroud - Universal	1
16	21-3770	Strap - Lift	1
17	3290-357	Nut - Flange	4
18	32104-82	Screw - Cap, Self-Tapping	2
19	3231-27	Bolt - Carriage	2
20	32128-42	Nut - Flange	4
21	14-0819	Cover - Deck L.H. (Incl. Ref. #24, 25, 44-45)	1
22	32128-49	Nut - Flange	12
†23	3290-469	Nut - Grip	4

Ref. No.	Part No.	Description	No. Used
24	3296-59	Nut - Lock	4
25	27-4570	Knob	4
26	32128-23	Nut - Lock, Flange	8
27	39-7450	Bracket - Clamp	1
28	39-3330	Bar - Caster Clamp	2
29	325-14	Screw - Cap, Hex Hd.	4
30	3290-384	Pin - Lynch	4
31	63-0070	Spacer - 1/2	24
32	28-9290	Bushing - Special	8
33	302-5	Fitting - Grease	4
34	26-1430	Caster Arm (Incl. Ref. #32)	1
35	3-6781	Washer	4
36	75-9680	Fork - Caster, Rear	2
37	325-18	Screw - Cap, Hex Hd.	2
38	3256-6	Washer - Flat	8
39	62-5580	Bushing	8
40	63-1770	Spanner - Rear	2
41	302-11	Fitting - Grease	2
42	63-8400	Wheel - Caster Rear (Incl. Ref. #39, 41 & 43)	2
43	63-8580	Bearing - Roller	2
44	66-1260	Bracket - Knob	2
45	3269-5	Rivet - Pop	4
46	3233-2	Bolt - Carriage	12
47	325-22	Screw - Cap ,Hex Hd.	2

†Special tool required to install.

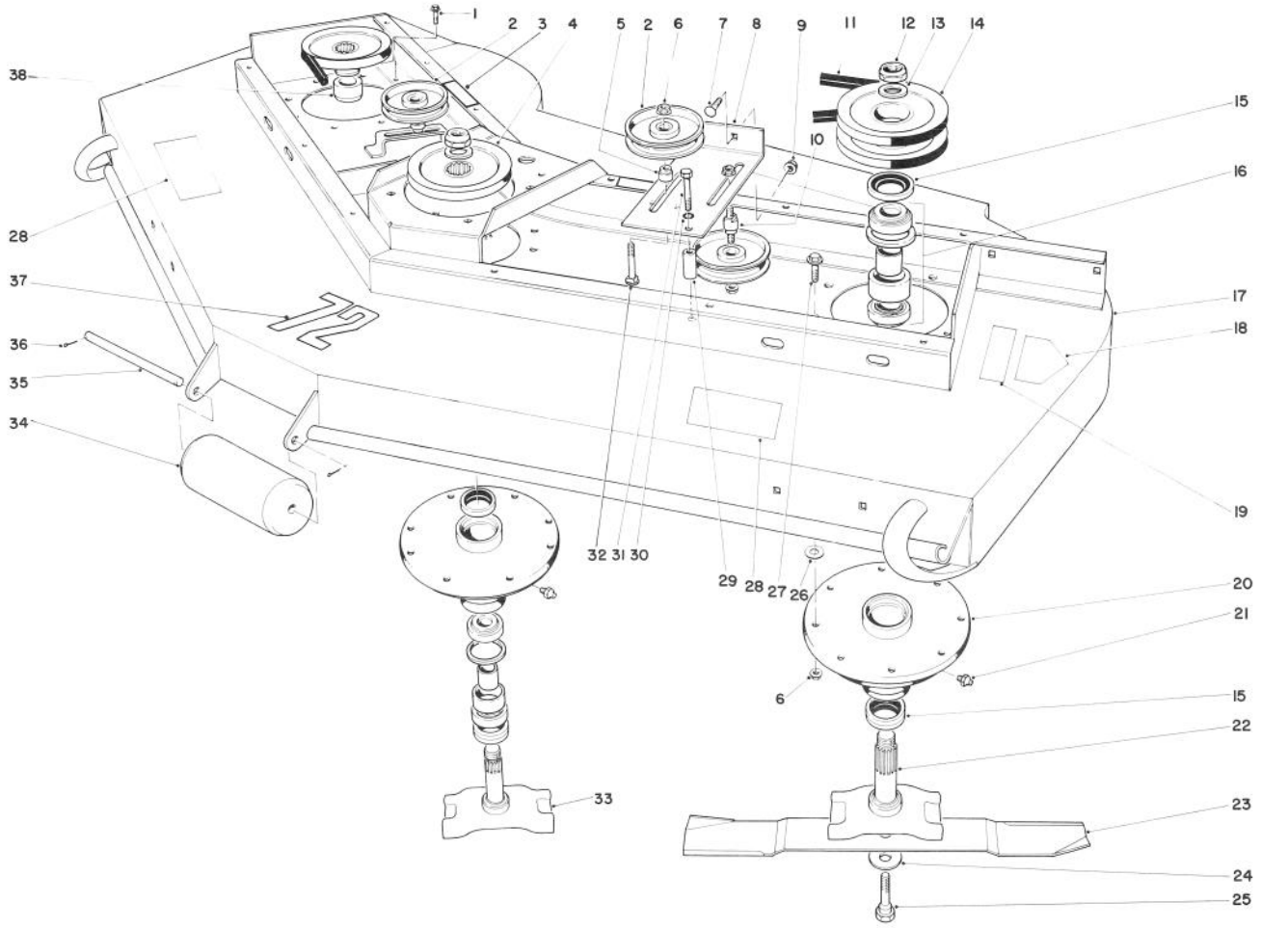


T-0442

CUTTING UNIT MODEL NO. 30722 (Continued)

Ref. No.	Part No.	Description	No. Used
48	62-5570	Bearing - Roller	2
49	302-40	Fitting - Grease	2
50	62-4330	Wheel - Caster - Front (Inc. Ref. #39, 48 & 49)	2
51	62-4340	Spanner - Front	2
52	26-1530	Fork - Caster, Front	2
53	23-1640	Bushing —TaperLock (Incl. Ref. #54)	1
54	3247-4	Screw - Set	2
55	3231-26	Bolt - Carriage	4
56	68-9890	Cover - Gear Box, Front	1
57	63-9750	Mount - Isolation	4
58	68-8560	Bracket - Gear Box	2
*	12-1509	Pneumatic Tire & Wheel (Optional)	2

*Not Illustrated



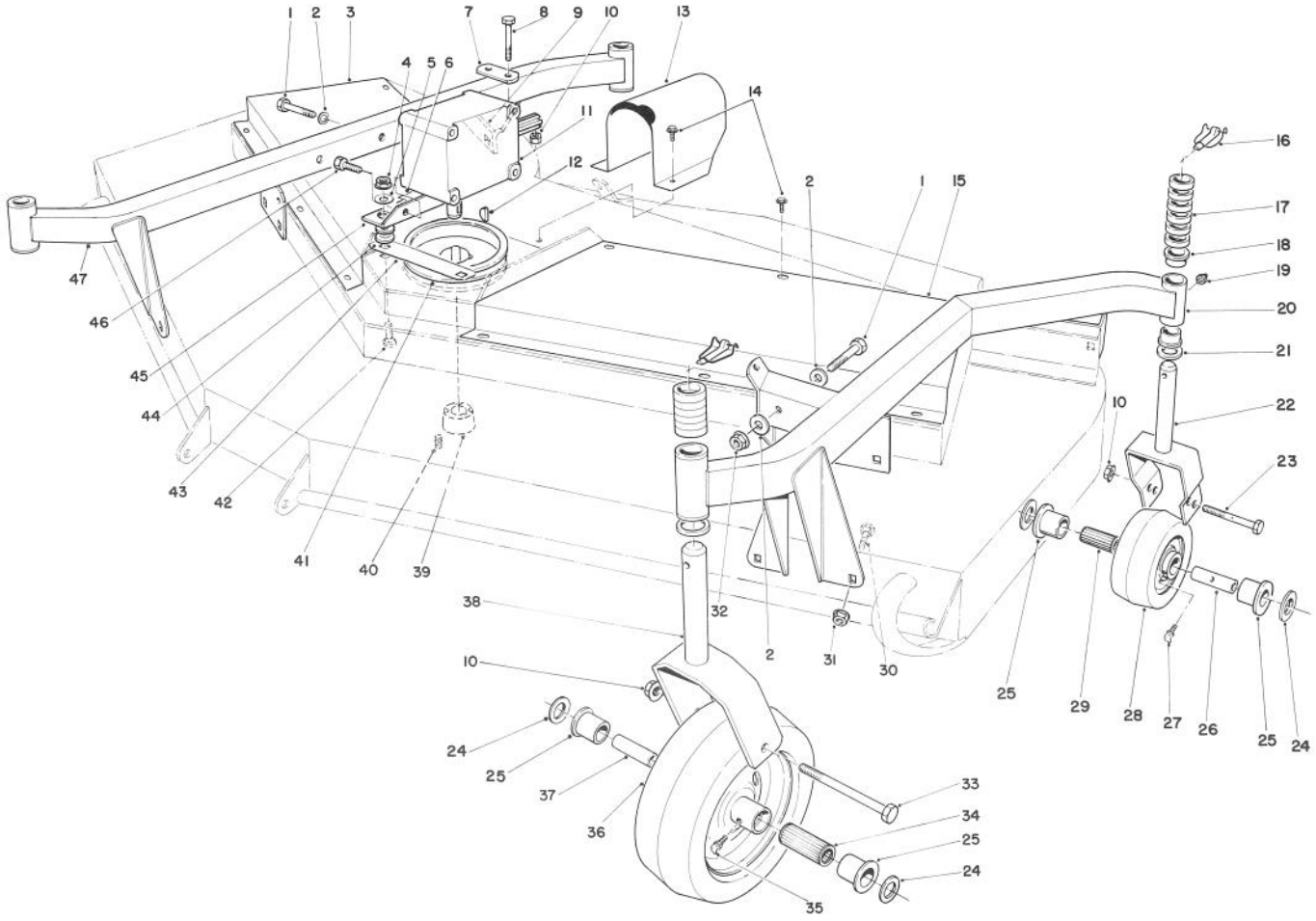
T-0443

CUTTING UNIT MODEL NO. 30710

Ref. No.	Part No.	Description	No. Used
1	3234-11	Screw - Hex. Hd. Flange	4
2	26-1840	Idler Pulley	3
3	67-5360	Decal - Shield Missing	2
4	26-1760	Pulley	2
5	26-1860	Spacer - Idler Pulley	2
6	32128-21	Nut - Flange	28
7	3231-22	Bolt - Carriage	2
8	26-1870	Idler Mount L.H.	1
9	3290-357	Nut - Flange	2
10	26-1850	Stud - Idler	1
11	21-0890	V-Belt	3
12	3296-49	Nut	3
13	3-8514	Washer	3
14	26-9100	Pulley L.H.	1
15	253-138	Oil Seal	9
16	49-8320	Bearing & Spacer Assy. (Matched Set)	3
17	38-9200	Cutter Deck	1
18	43-8480	Decal - Danger	2
19	68-7280	Decal - Blade Bolt Torque	1
20	60-9700	Spindle Housing	3

Ref. No.	Part No.	Description	No. Used
21	302-52	Grease Fitting	3
22	26-1690	Spindle - Outer	2
23	29-5530	Blade	3
24	26-1990	Washer - Belleville	3
25	26-1820	Screw - Cap, Hex. Hd.	3
26	3256-24	Washer	A/R
27	3234-1	Screw - Hex. Hd. Flange	20
28	66-1340	Decal - Danger	2
29	26-1880	Spacer - Idler Mount	1
30	3253-21	Washer - Lock	1
31	323-12	Screw - Cap, Hex. Hd.	1
32	3231-29	Bolt - Carriage	2
33	26-1680	Spindle Center	1
34	31-0750	Roller	1
35	32-9610	Roller Shaft	1
36	3272-11	Cotter Pin	2
37	57-0280	Decal - 72"	1
38	26-1790	Spacer - R.H. Spindle	1
*	23-2410	Blade - High Lift (Optional)	3

*Not Illustrated



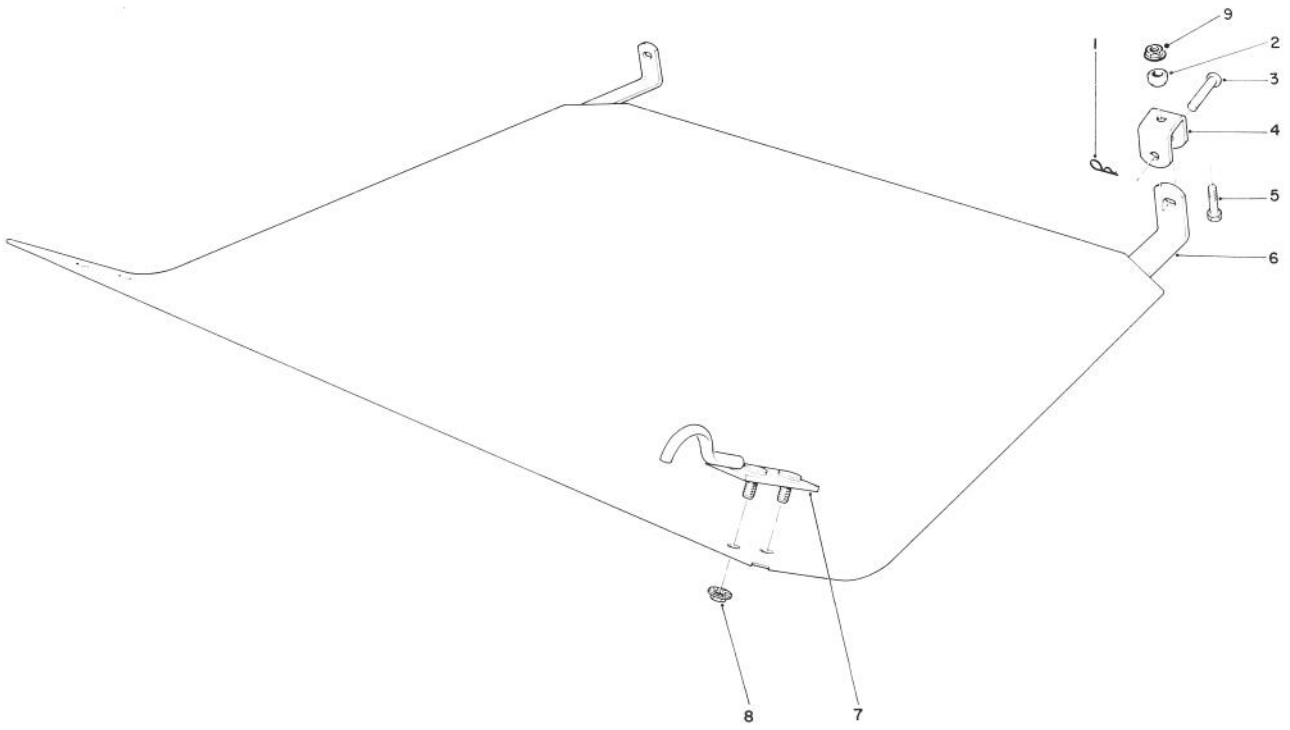
T-0444

CUTTING UNIT MODEL NO. 30710 (Continued)

Ref. No.	Part No.	Description	No. Used
1	324-12	Screw - Cap, Hex. Hd.	4
2	66-6480	Washer - Flat	4
3	26-1890	Cover R.H. - Deck	1
4	32128-21	Nut - Lock ,Flange	4
5	63-8410	Washer	4
6	70-2560	Decal - Lube	1
7	39-3330	Bar - Clamp Castor Arm	1
8	325-14	Screw - Cap, Hex. Hd.	2
9	39-3340	Bracket - Clamp	1
10	32128-23	Nut - Lock, Flange	6
11	68-6810	Gear Box Assembly	1
12	3257-5	Key - Woodruff	1
13	63-1970	Shroud - Universal	1
14	32104-82	Screw - Cap, Self Tapping	14
15	26-1900	Cover L.H. - Deck	1
16	3290-384	Pin - Lynch - Safety Type	4
17	63-0070	Spacer 1/2"	24
18	28-9290	Bushing - Special	8
19	302-5	Fitting - Grease	4
20	38-9420	Arm - Castor L.H. (Incl. Ref. #18)	1
21	3-6781	Washer	4
22	75-9680	Fork - Castor, Rear	2
23	325-18	Screw - Cap, Hex Hd.	2
24	3256-6	Washer - Flat	8
25	62-5580	Bushing	8
26	63-1770	Spanner - Rear	2

Ref. No.	Part No.	Description	No. Used
27	302-11	Fitting - Grease	4
28	63-8400	Wheel - Castor - Rear (Inc. Ref. #25, 27 & 29)	2
29	63-8580	Bearing - Roller	2
30	3233-2	Bolt - Carriage	12
31	32128-49	Nut - Flange	12
32	32128-42	Nut - Flange	4
33	325-22	Screw - Cap ,Hex Hd.	2
34	62-5570	Bearing - Roller	2
35	302-40	Fitting - Grease	2
36	62-4330	Wheel - Castor - Front (Inc. Ref. #25, 35 & 36)	2
37	62-4340	Spanner - Front	2
38	26-1530	Fork - Castor	2
39	23-1640	Bushing - Taper	1
40	3247-4	Screw - Set	2
41	26-1400	Pulley - Deck	1
42	3231-26	Bolt - Carriage	4
43	68-9890	Cover - Gear Box - Front	1
44	63-9750	Mount - Isolation	4
45	68-8560	Bracket - Gearbox	2
46	323-4	Screw - Cap ,Hex Hd.	4
47	38-9370	Arm - Castor - R.H. (Incl. Ref. #18)	1
*	12-1509	Pneumatic Tire & Wheel Assy. (Optional)	1

*Not Illustrated



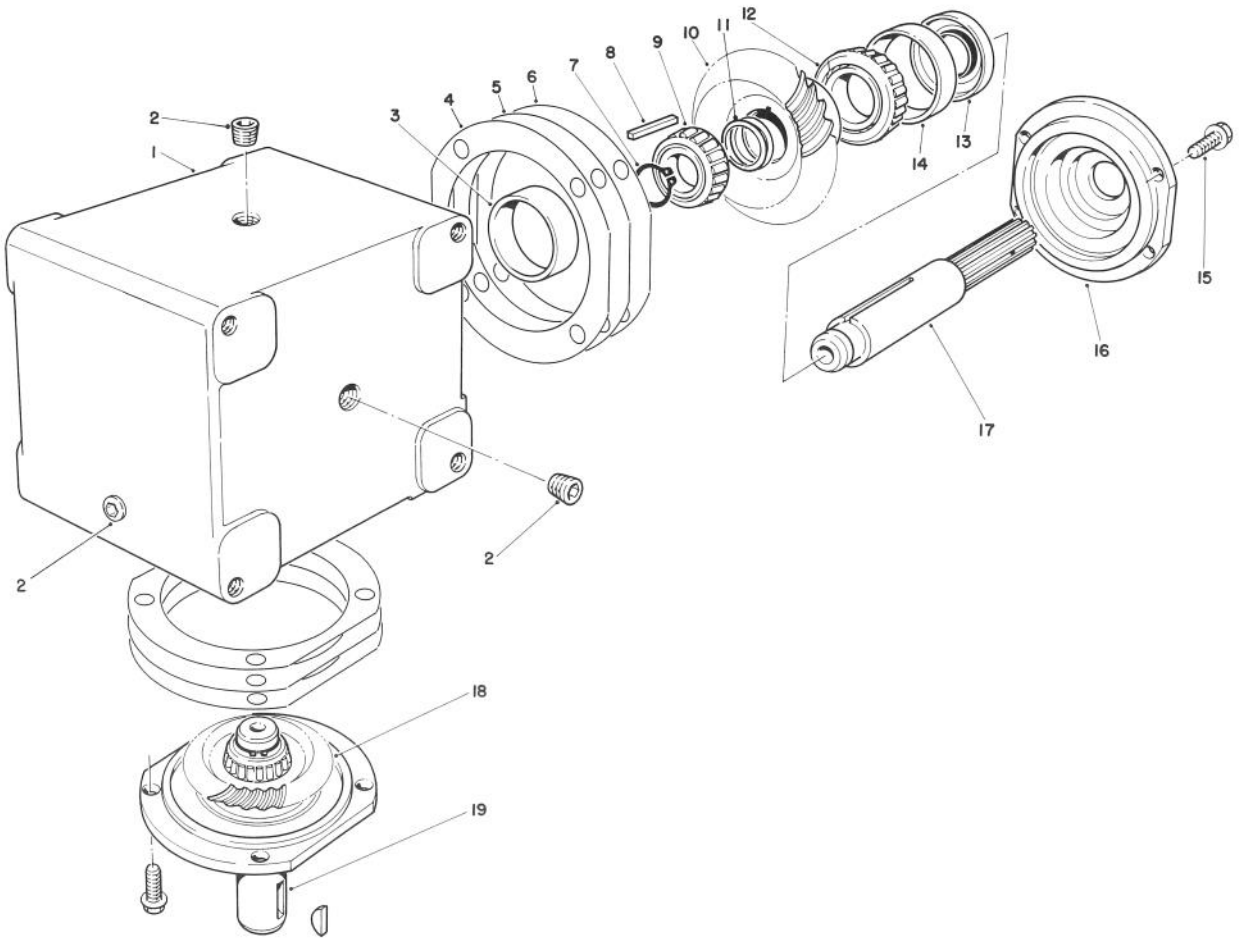
T-0445

CUTTING UNIT MODEL NO. 30710 (Continued)

Ref. No.	Part No.	Description	No. Used
1	3290-322	Hair Pin Cotter	2
†2	46-1600	Spacer	2
3	283-23	Clevis Pin	2
4	39-1470	Hanger - Belly Shield	2
5	323-7	Screw - Cap, Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
6	39-1410	Shield - Belly	1
7	39-1440	Hook - Shield, Belly	2
8	32128-20	Nut - Flange	4
†9	32128-21	Nut - Flange	2

†Use with diesel unit ONLY

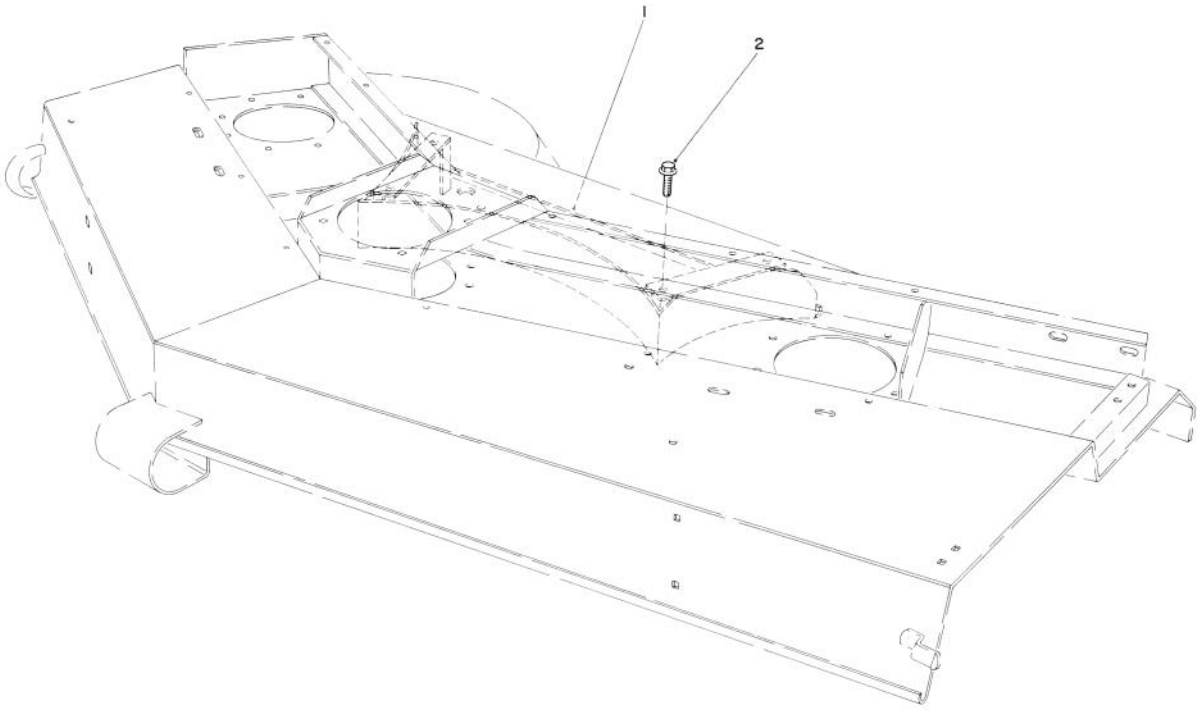


T-0977

GEAR BOX ASSEMBLY NO. 68-6810

Ref. No.	Part No.	Description	No. Used
1	68-7030	Housing	1
2	62-3490	Plug - Pipe (Solid)	4
3	62-3360	Cup - Bearing	2
4	62-3420	Gasket (.015 in.)	A/R
5	62-3430	Gasket (.005 in.)	A/R
6	62-3440	Gasket (.003 in.)	A/R
7	68-7070	Ring - Retaining	2
8	62-3380	Key	2
9	62-3370	Cone - Bearing	2
10	68-7080	Gear	1

Ref. No.	Part No.	Description	No. Used
11	72-9370	Shim (.020 in.)	4
12	62-3330	Cone - Gear	1
13	62-3400	Seal	2
14	62-3340	Cup - Bearing	2
15	62-3310	Screw - Cap, Sems	8
16	62-3410	Cap	2
17	68-7040	Shaft	1
18	68-7060	Gear	1
19	68-7050	Shaft	1

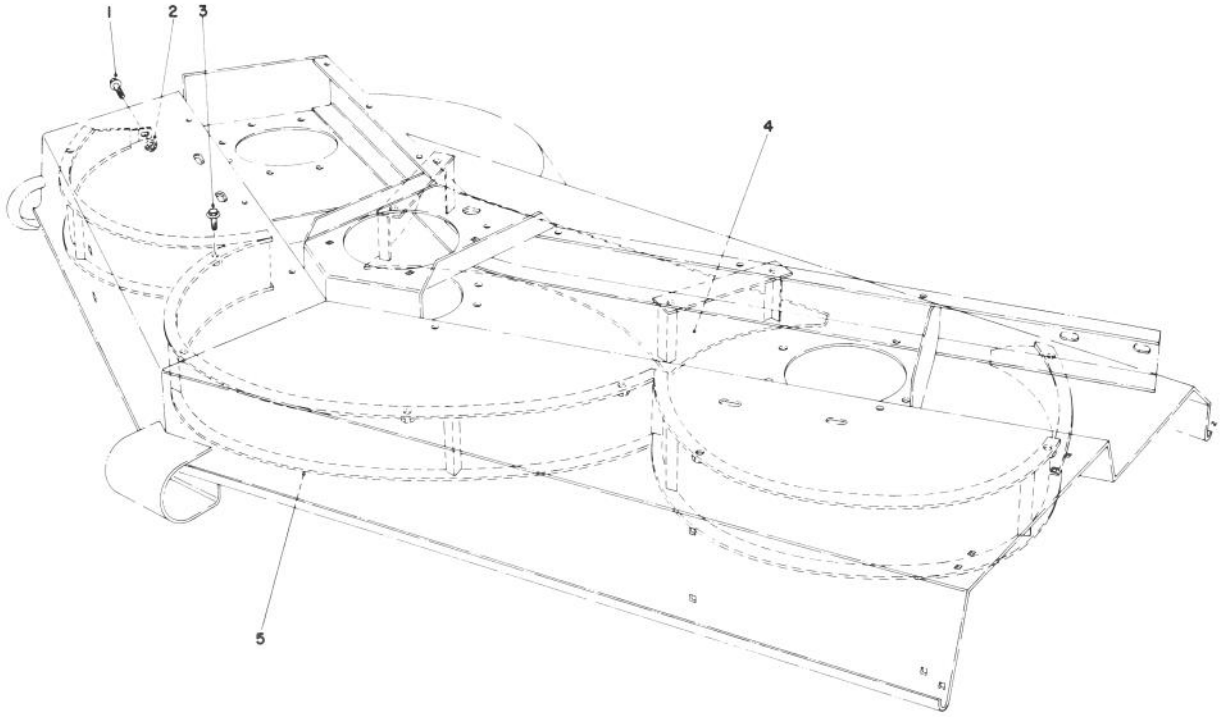


T-0446

REAR BAFFLE KIT NO. 51-1460 (Optional)
(For Cutting Unit Model No. 30721)

Ref. No.	Part No.	Description	No. Used
1		Rear Baffle	1

Ref. No.	Part No.	Description	No. Used
2	3234-1	Screw -Hex. Hd. Flange	4



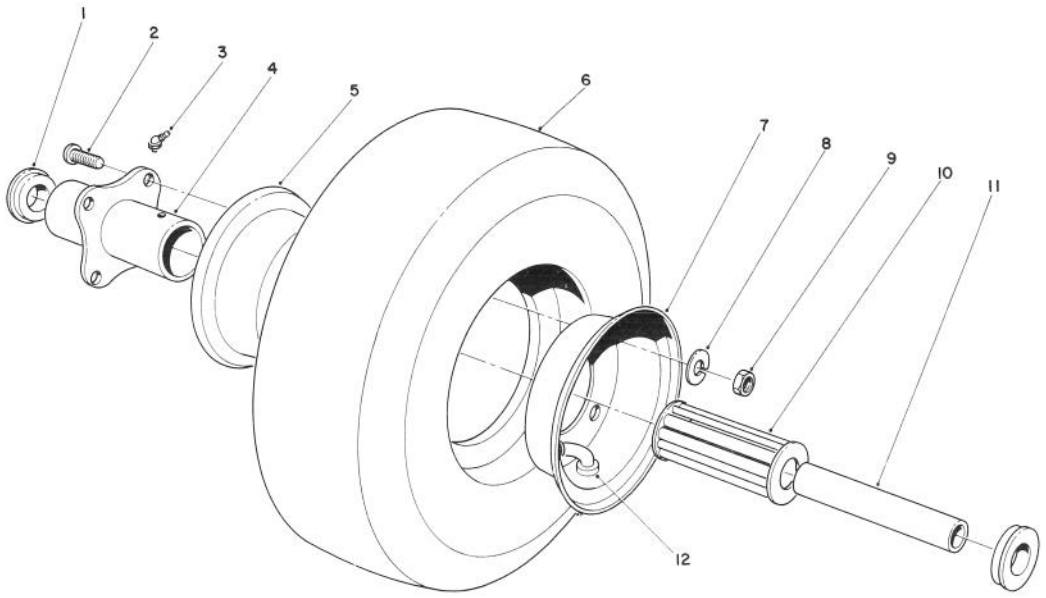
T-0447

MULCHER KIT MODEL NO. 30732 (Optional)
(For Cutting Unit Model No. 30721)
MULCHER KIT MODEL NO. 30733 (Optional)
(For Cutting Unit Model No. 30722)

Ref. No.	Part No.	Description	No. Used
1	3234-11	Screw - Hex. Hd. Flange	1
2	32128-21	Nut - Flange	13
3	3234-1	Screw - Hex. Hd. Flange	12
4	23-4190	Bottom Rear Shield (Model 30732 only)	1
*	68-6740	Bottom Rear Shield (Model 30733 only)	
5	27-5430	Mulcher Screen	1

*Not Illustrated

Note: Will not fit with Cutting Unit Model No. 30710.

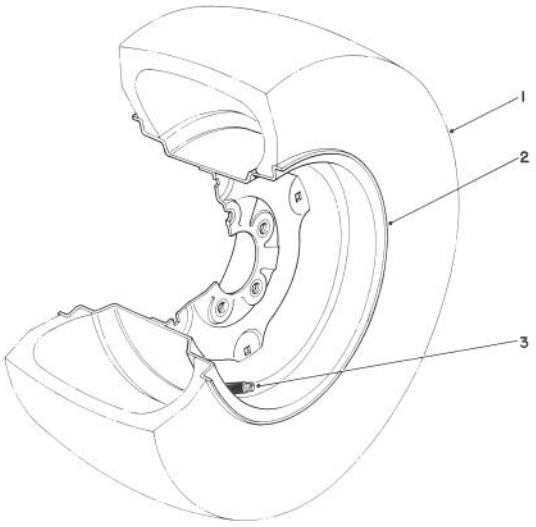


T-0448

CUTTING UNIT PNEUMATIC TIRE & WHEEL ASSEMBLY NO. 12–1509 (Optional)

Ref. No.	Part No.	Description	No. Used
1	54–8930	Retainer	2
2	54–8890	Bolt – Wheel	4
3	302–10	Fitting – Grease	1
4	54–8920	Hub – Centered	1
5	54–8910	Wheel Half – Female	1
6	54–8960	Tire	1
7	54–8900	Wheel Half – Male	1

Ref. No.	Part No.	Description	No. Used
8	3253–4	Washer – Lock	4
9	3217–6	Nut – Hex.	4
10	54–8940	Bearing – Roller (Open Cage)	1
11	55–7080	Bushing – Spanner	1
12	54–8950	Tube w/Valve	1

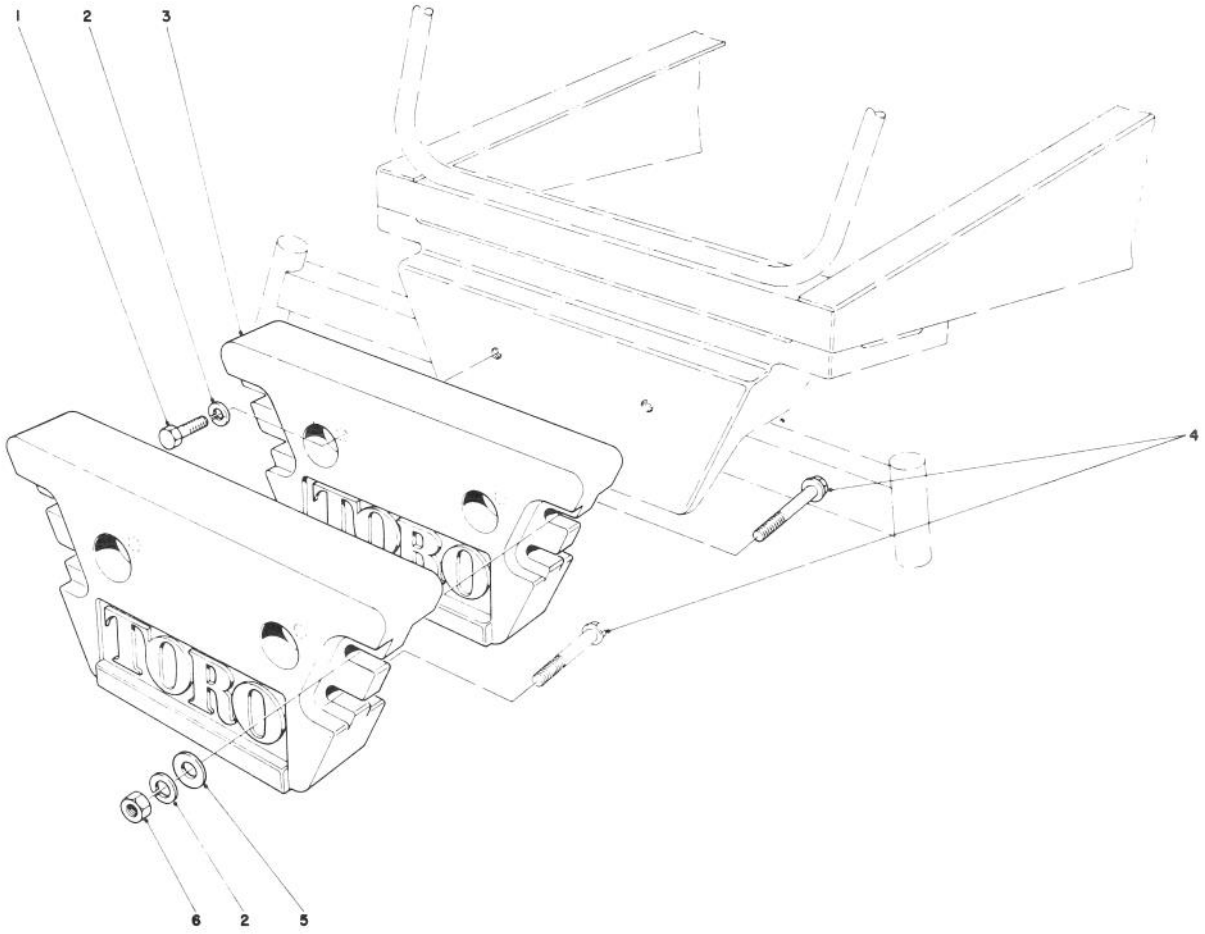


T-0449

23 x 10.5 x 12 TIRE & WHEEL ASSEMBLY NO. 62–7020 (Optional)

Ref. No.	Part No.	Description	No. Used
1	231–95	Tire	1
2	217–116	Rim	1
3	232–27	Valve Stem	1

Note: Will not fit with Cutting Unit Model No. 30710.

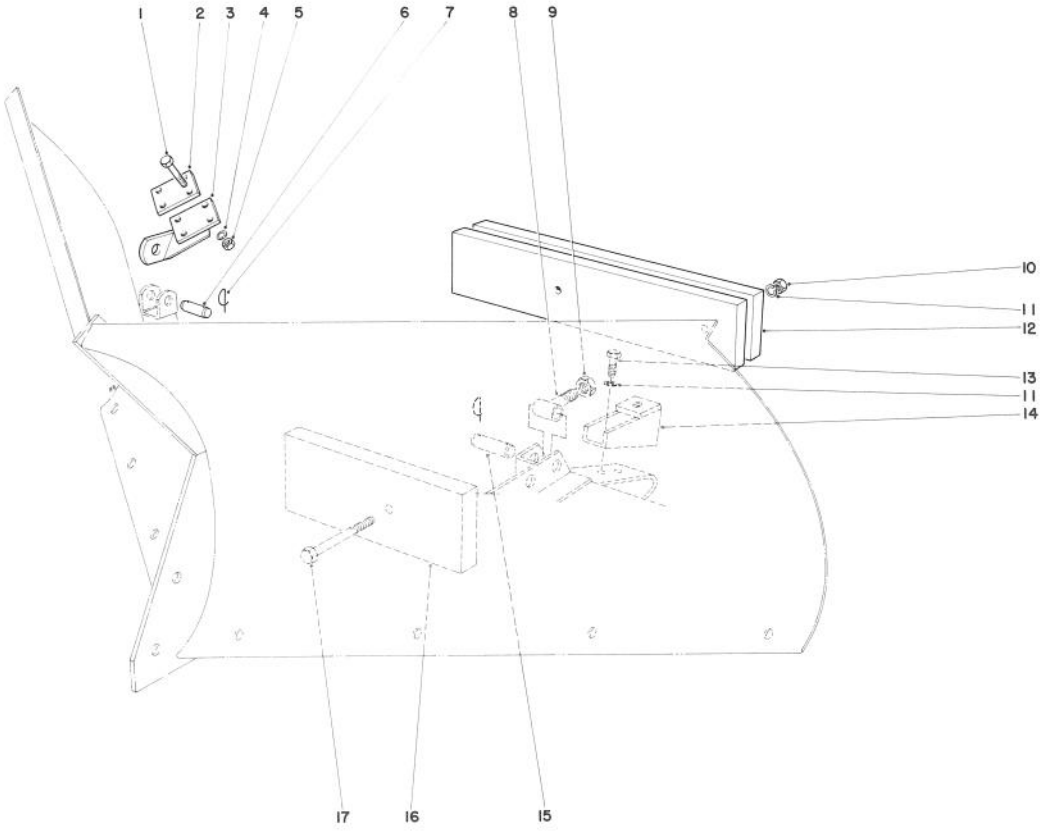


T-0427

REAR WEIGHT KIT NO. 24–5780 (Optional)

Ref. No.	Part No.	Description	No. Used
1	325–6	Screw – Cap, Hex. Hd.	2
2	3253–7	Washer – Lock	6
3	24–5790	Rear Weight	2

Ref. No.	Part No.	Description	No. Used
4	325–14	Screw – Cap, Hex. Hd.	4
5	3256–26	Washer – Flat	8
6	3217–9	Nut – Hex.	4



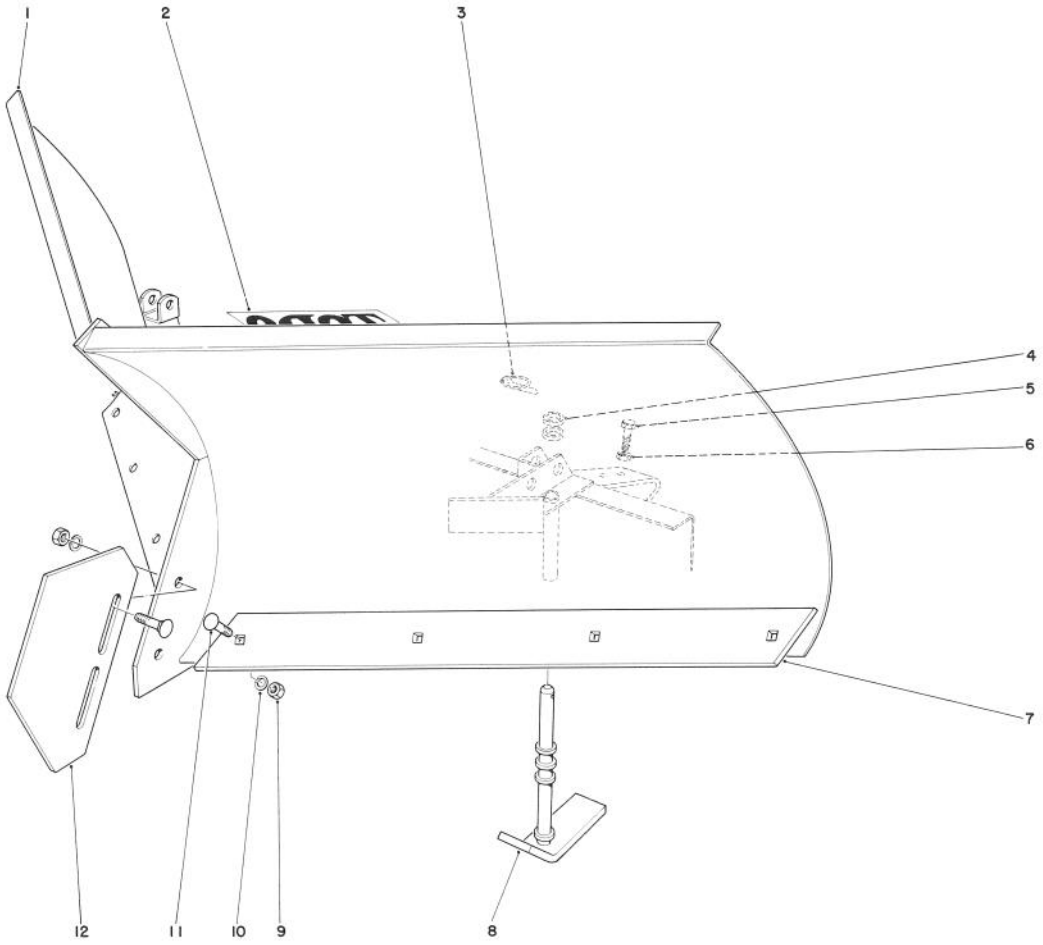
T-0451

V-PLOW INSTALLATION KIT MODEL NO. 30757 (Optional)

Ref. No.	Part No.	Description	No. Used
1	323-14	Screw - Cap, Hex. Hd.	4
2	24-2690	Plate - Clamp	1
3	24-2680	Push Arm Bracket	1
4	3253-21	Washer - Lock	4
5	3217-7	Nut - Hex.	4
6	5-3505	Pin	1
7	5-3126	Spring Pin	4
8	23-9930	Push Pin	1
9	21-3000	Nut - Jam	1
10	3217-9	Nut - Hex.	2

Ref. No.	Part No.	Description	No. Used
11	3253-7	Washer - Lock	4
12	24-2660	Outside Weight	2
13	325-4	Screw - Cap, Hex. Hd.	2
14	24-2630	Stop	1
15	25-1350	Pin	1
16	24-2670	Inside Weight	2
17	325-22	Screw - Cap, Hex. Hd.	2
*	11-0390	Chains - Tire (1 Pair)	1

*Not Illustrated

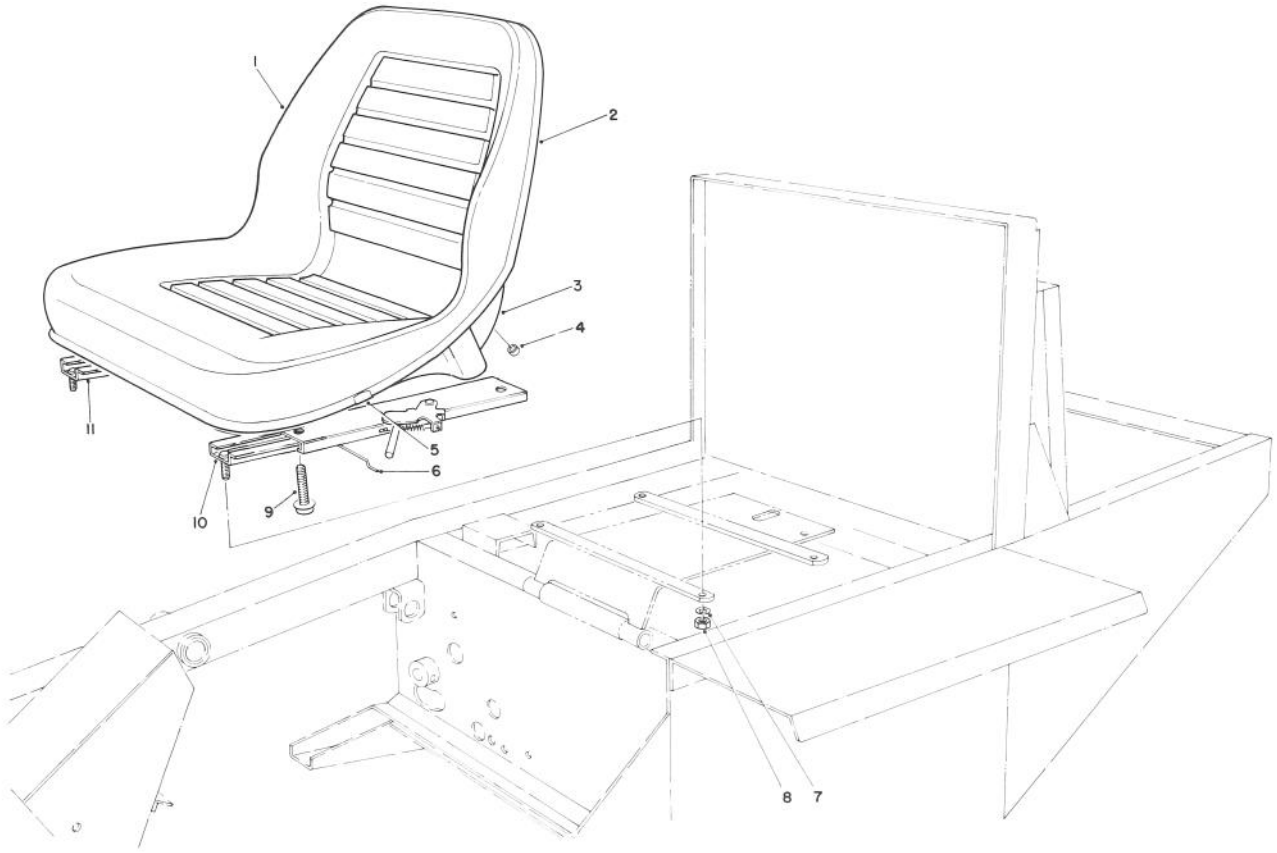


T-0452

V-PLOW MODEL NO. 30750 (Optional)

Ref. No.	Part No.	Description	No. Used
1	23-9960	V-Plow	1
2	66-6140	Decal	1
3	3290-243	Lynch Pin	2
4	20-4370	Spacer Tubes	10
5	325-6	Screw - Cap, Hex. Hd.	1
6	3218-5	Nut - Jam	1

Ref. No.	Part No.	Description	No. Used
7	24-5570	Scraper Blade	2
8	24-5540	Skid	2
9	3217-9	Nut - Hex.	10
10	3253-7	Washer - Lock	10
11	3233-2	Bolt - Carriage	10
12	24-5530	Nose Skid	1

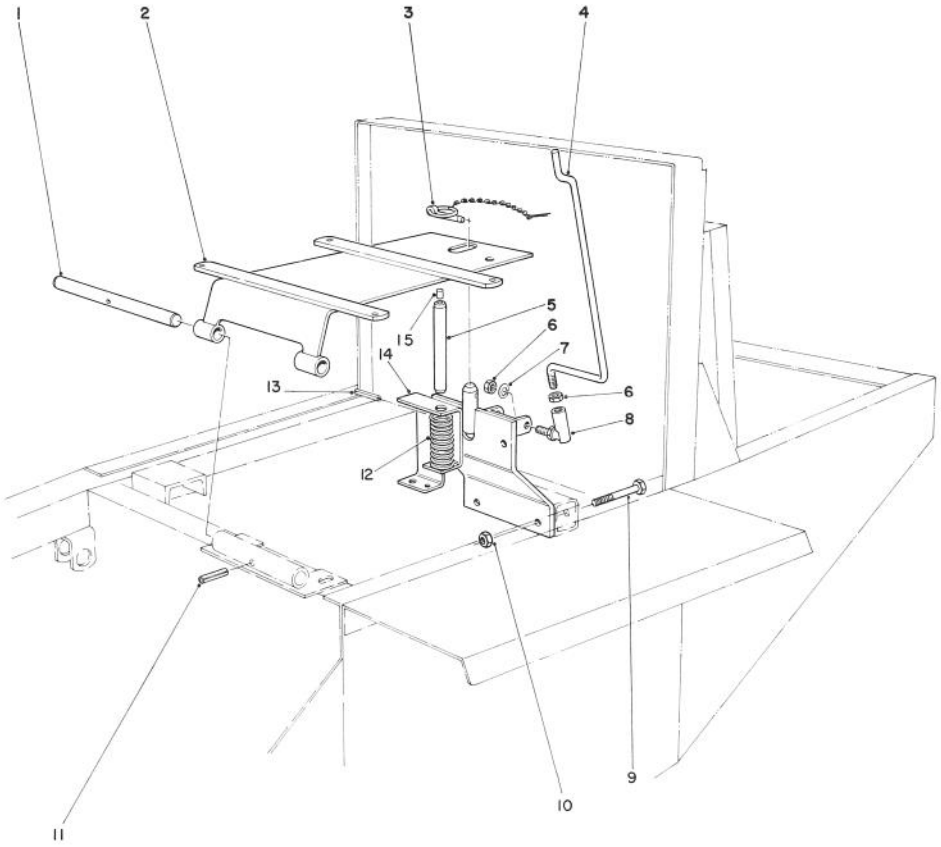


T-0450

STANDARD SEAT KIT MODEL NO. 30770

Ref. No.	Part No.	Description	No. Used
1		Cushion	1
2		Trim	1
3		Base	1
4		Grommet	1
5		Clip	1
6	52-4890	Rod Connecting	1
7	3253-4	Washer - Lock	4
8	3217-6	Nut - Hex.	4
9	3234-5	Screw - Cap, Hex. Hd. Fl.	4
10	51-0790	Adjuster L.H.	1
11	52-4880	Adjuster - R.H.	1
*	66-5400	Seat Assembly (Incl. Ref. #1-5)	1

*Not Illustrated

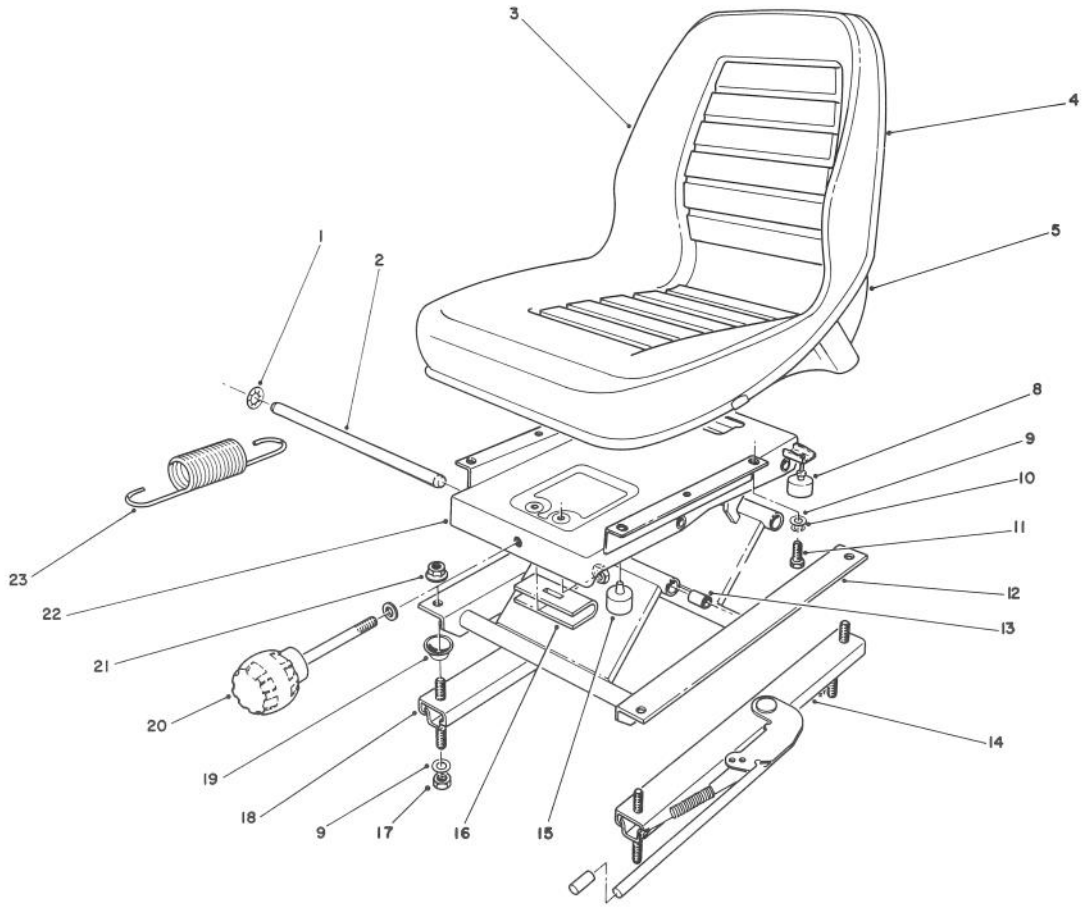


T-0453

STANDARD SEAT KIT MODEL NO. 30770 (Continued)

Ref. No.	Part No.	Description	No. Used
1	27-4720	Shaft	1
2	36-7550	Seat Support	1
3	283-76	Lynch Pin	1
4	37-9580	Seat Prop	1
5	27-9870	Pin - Seat Switch	1
6	3220-2	Nut - Jam	2
7	3253-24	Washer - Lock	1
8	37-9570	Ball Joint	1

Ref. No.	Part No.	Description	No. Used
9	323-14	Screw - Cap, Hex. Hd.	2
10	5-0838	Washer - Flat	3
11	32128-21	Nut	2
12	32121-4	Spring Pin	1
13	28-0570	Spring -Compression	1
14	32121-6	Spring Pin	1
15	71-4490	Seat Support Bracket	1
16	28-6180	Pin - Plastic	1



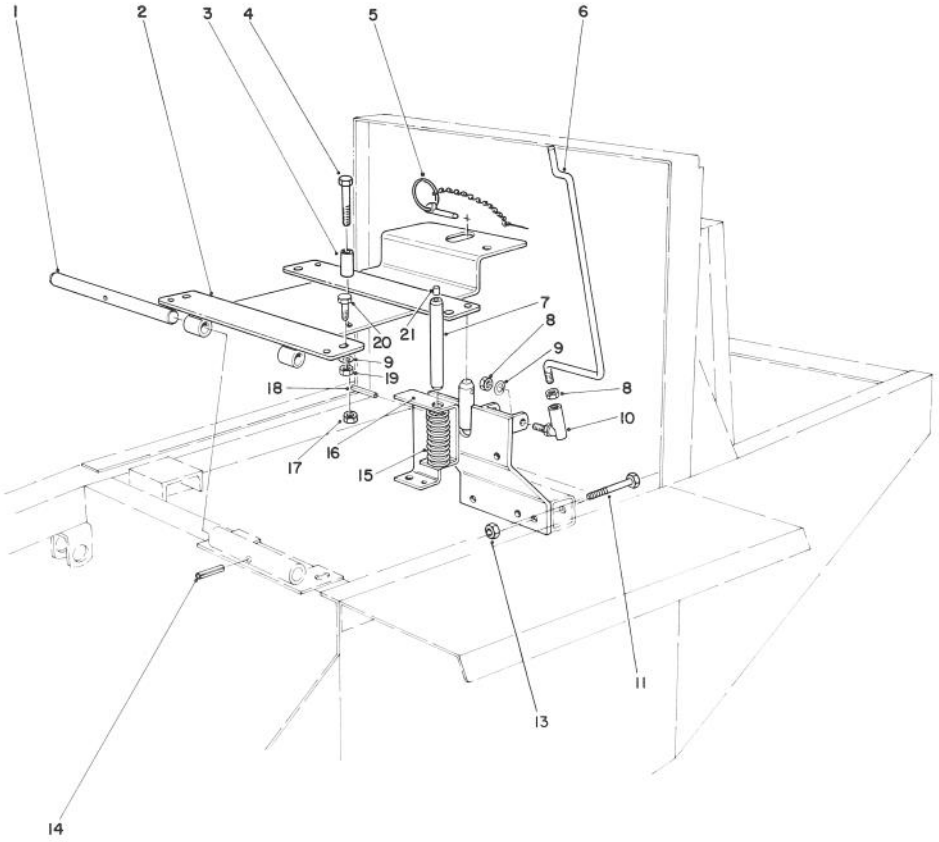
T-0454

DELUXE SEAT KIT MODEL NO. 30772

Ref. No.	Part No.	Description	No. Used
1	66-8560	Nut - Push	4
2	76-1910	Shaft - Pivot	2
3		Cushion - Seat	1
4		Trim-Seat	1
5		Base-Seat	1
6		Grommet	1
7		Cup	1
8	76-2940	Bumper	2
9	3256-2	Washer - Flat	8
10	3253-4	Washer - Lock	4
11	322-3	Screw - Cap, Hex. Hd.	4
12	66-8610	Frame - Lower	1
13	76-1920	Bearing - Sleeve	4

Ref. No.	Part No.	Description	No. Used
14	66-8510	Adjuster w/Handle	1
15	66-8520	Bumper - Stop	2
16	66-8540	Hanger - Spring	1
17	3296-29	Nut - Lock	4
18	66-8530	Adjuster	1
19	66-9290	Spacer - Suspension	4
20	76-1930	Knob - Adjustment	1
21	32128-25	Nut - Lock, Flange Hd.	4
22	66-8600	Frame - Upper	1
23	76-1940	Spring - Extension	2
*	66-5400	Seat Assembly (Incl. Ref. #3-7)	1

*Not Illustrated

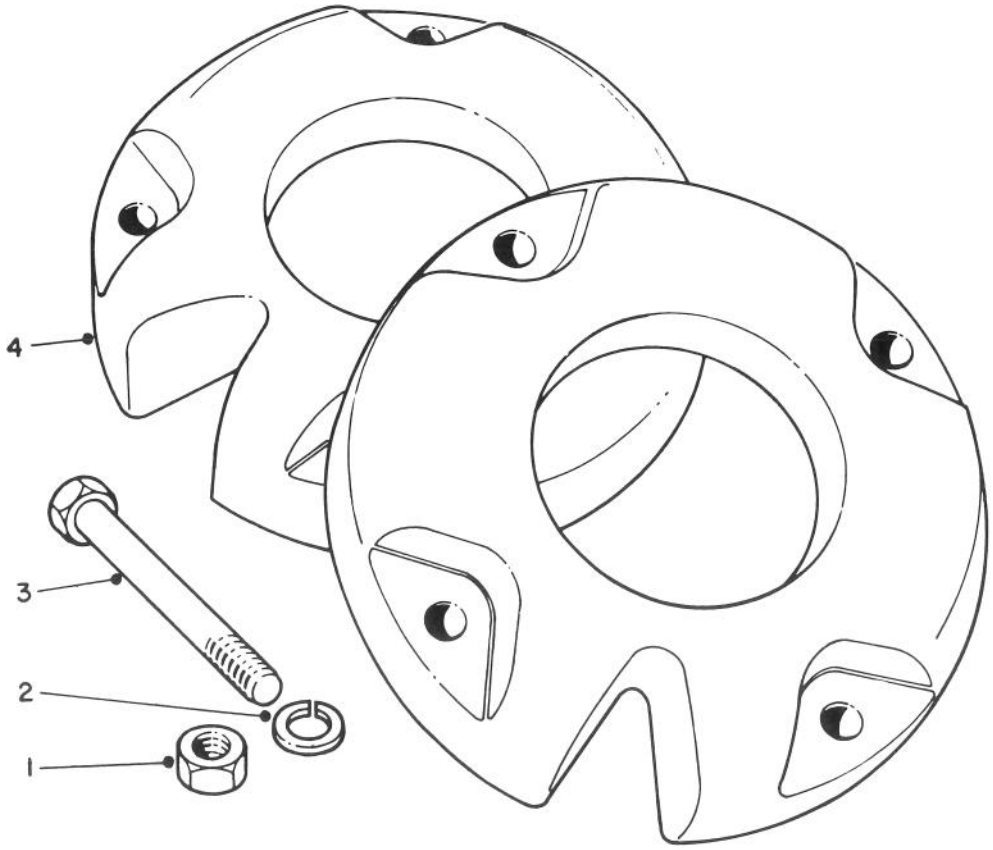


T-0212

DELUXE SEAT ADAPTER KIT MODEL NO. 30791

Ref. No.	Part No.	Description	No. Used
1	27-4720	Shaft	1
2	67-9860	Support Seat	1
3	67-9210	Spacer	1
4	322-10	Screw - Cap, Hex. Hd.	1
5	283-76	Lynch Pin	1
6	37-9580	Prop - Seat	1
7	27-9870	Pin - Seat Switch	1
8	3220-2	Nut - Jam	2
9	3253-24	Washer - Lock	5
10	37-9570	Ball Joint	1
11	323-14	Screw - Cap, Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
13	32128-21	Nut	2
14	32121-4	Pin - Spring	1
15	37-9590	Spring - Compression	1
16	71-4490	Bracket - Seat Support	1
17	32146-5	Nut - Flange Hd.	1
18	32121-6	Pin - Spring	1
19	3217-6	Nut	4
20	322-4	Screw - Cap, Hex. Hd.	4
21	28-6180	Pin - Plastic	1
22	5-0838	Washer - Flat	3



T-0457

WHEEL WEIGHTS NO. 11-0440 (Optional)

Ref. No.	Part No.	Description	No. Used
1	3218-5	Nut	8
2	3253-7	Washer - Lock	8

Ref. No.	Part No.	Description	No. Used
3	325-14	Screw - Cap, Hex. Hd.	8
4	7-2111	Weight - Wheel	2

MAINTENANCE RECORD

Date								

MAINTENANCE RECORD

Date								

PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible - minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit - which is not reflected in your manual - see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

IDENTIFICATION AND ORDERING

MODEL AND SERIAL NUMBERS

The Groundsmaster 322D has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Groundsmaster 322D - supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer - supply the following information:
1. Model and serial number of the Groundsmaster 322D.
2. Part number - description - and the quantity of part(s) desired.

NOTE: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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Certifie Conforme au Reglement sur le Brouillage Radioelectrique.

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